

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 director, and an executive 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 director 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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Executive Coordinator, NTEP Policy Committee - J. Jack Murray

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LOCATIONS SUBMITTING DATA FOR 1990

<u>State</u>	<u>Location</u>	<u>Code</u>
District of Columbia	Washington Monument Grounds	DC1
Idaho	Post Falls	ID2
Illinois	Carbondale	IL2
Indiana	West Lafayette	IN1
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
	(mechanical wear applied Spring, Fall)	
Nebraska	Lincoln	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New York	Ithaca	NY1
Ohio	Marysville	OH2
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Rhode Island	Kingston	RI1
South Dakota	Brookings	SD1
Virginia	Blacksburg	VA1

1986 NATIONAL PERENNIAL RYEGRASS TEST

Entries and Sponsors

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

Entry No.	Name	Sponsor
36	Pennfine	Joe Duich - Penn State

TABLE A.

1990 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)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN.)	IRRIGATION PRACTICED
DC1	LOAM	4.6-5.5	61-150	241-375	1.1-2.0	FULL SUN	2.1-2.5	NO IRRIGATION
ID2	SILT LOAM AND SILT	4.6-5.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
IL2	SILTY CLAY AND CLAY	6.1-6.5	61-150	151-240	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	6.6-7.0	61-150	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375	2.1-3.0	FULL SUN	1.6-2.0	NO IRRIGATION
MD1	SANDY LOAM	6.1-6.5	151-270	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MI1	SANDY LOAM	7.1-7.5	-	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MO1	SILTY CLAY LOAM	5.6-6.0	61-150	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NE1	-	-	-	-	-	-	-	-
NJ1	LOAM	6.1-6.5	271-450	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY LOAM	6.1-6.5	61-150	241-375	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
NY1	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
OH2	SILTY CLAY LOAM	-	-	-	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
OR1	SILT LOAM AND SILT	5.6-6.0	151-270	241-375	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
OR2	SILTY CLAY LOAM	6.1-6.5	151-270	376-500	4.1-5.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
RI1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
SD1	SILTY CLAY LOAM	6.6-7.0	-	-	-	FULL SUN	2.1-2.5	TO PREVENT STRESS
UB1	LOAM	4.6-5.5	61-150	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
VA1	SILT LOAM AND SILT	-	-	-	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1990

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	X			
ID2				X	X	X	X					
IL2			X	X	X	X	X	X				
IN1				X	X	X	X	X	X			
KY1			X	X	X	X	X	X	X	X		
MD1				X		X						
MI1					X	X	X	X	X	X		
MO1				X			X					
NE1					X	X		X	X			
NJ1				X	X	X	X	X	X		X	
NJ2				X		X		X			X	
NY1				X	X	X	X	X	X	X		
OH2					X							
OR1	X	X	X	X	X	X	X	X	X	X	X	X
OR2		X	X	X		X	X	X	X	X	X	
RI1				X	X	X	X	X		X		
SD1					X	X	X	X	X	X		
UB1				X	X	X	X		X	X	X	
VA1				X	X	X	X	X		X		

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1990

LOCATION	GENETIC COLOR RATING	LEAF TEXTURE RATING	SPRING DENSITY	SUMMER DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	LEAF SPOT	RED THREAD	WHITE GRUBS	MOWING RATING
DC1										
ID2	X	X		X		X		X		X
IL2										
IN1										
KY1										
MD1								X	X	
MI1										
MO1					X	X				
NE1										
NJ1										
NJ2										
NY1										
OH2	X						X			
OR1										
OR2										
RI1										
SD1	X	X	X	X						
UB1										
VA1										

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/										
NAME	DC1	ID2	IL2	IN1	KY1	MD1	MI1	MO1	NE1	NJ1
* PST-2PM (SATURN)	5.0	5.9	7.2	7.0	6.8	5.5	5.9	5.7	6.2	6.3
* PST-M2E (MAN. II W/E)	4.4	6.2	6.8	7.3	7.2	5.7	5.4	5.8	5.5	6.3
* SR 4000	2.9	6.3	7.0	6.8	7.2	6.2	6.3	5.8	6.0	6.2
* PICK 300 (BLAZER II)	5.3	6.6	6.9	7.2	7.3	5.7	5.7	5.8	6.2	5.4
* PST-259 (COMMANDER)	4.9	6.3	7.1	6.9	6.8	5.5	5.2	5.0	5.9	5.8
* SR 4100	4.1	6.6	7.6	6.9	7.2	6.0	5.2	6.2	5.7	6.0
* PST-2H7 (DIMENSION)	3.3	7.3	6.7	6.6	7.1	4.8	6.3	5.5	5.8	6.1
* REPELL	5.3	6.4	7.0	6.9	7.3	6.0	5.4	5.3	5.8	5.1
* PICK 600 (FIESTA II)	3.2	6.3	6.7	6.9	6.9	5.2	5.4	5.8	6.3	5.2
* OMEGA II	3.2	6.8	6.3	7.1	7.3	5.5	5.4	5.7	5.6	5.3
* PICK 647 (RIVIERA)	3.8	6.3	7.2	6.8	7.1	4.8	5.8	5.5	5.7	5.8
* PENNANT	4.9	6.4	7.1	6.8	6.5	5.2	5.4	5.5	6.0	5.6
* MANHATTAN II	4.2	6.8	6.8	6.9	6.5	5.7	5.5	5.2	5.8	5.5
* PST-250 (COMPETITOR)	4.4	5.9	6.8	6.8	6.6	5.3	5.0	5.7	5.8	5.7
* PST-2HH (CHARGER)	2.8	6.2	7.1	6.8	6.8	6.2	6.0	4.8	5.7	4.8
* PICK 715 (EDGE)	2.9	5.5	6.4	6.9	6.6	6.3	5.0	5.7	5.8	5.7
* PALMER	5.8	6.2	6.5	6.9	6.6	6.3	5.3	5.3	5.7	5.3
* PICK 233 (DASHER II)	2.9	5.8	6.4	6.7	7.0	5.8	5.4	5.2	5.6	5.7
* CITATION II	2.3	5.8	6.9	6.7	7.0	6.3	5.4	5.8	5.2	5.4
* ISI-851 (LINDSAY)	3.4	6.0	6.6	6.6	6.7	5.5	5.4	5.3	5.8	5.2
PST-2DD	3.1	7.2	.	6.8	6.9	4.7	4.9	3.5	5.3	5.0
* PRELUDE	5.1	6.3	6.9	6.7	6.4	5.5	5.3	5.3	5.9	5.0
* GATOR	4.3	5.9	6.3	6.9	6.8	5.3	5.3	4.8	5.9	5.0
* ALLAIRE	4.5	5.8	6.7	6.9	6.7	5.7	5.3	5.0	6.0	5.0
PSU-333	5.1	5.8	6.9	6.8	6.5	5.8	5.2	5.0	5.8	5.0
* KWS-AL-2 (AQUARIUS)	3.3	6.1	6.1	6.1	6.3	4.7	5.5	5.0	5.5	6.1
* CALIENTE	5.1	5.8	7.2	6.6	6.6	5.7	4.8	5.3	5.7	5.0
* GOALIE	4.4	5.9	7.5	6.7	6.4	5.3	5.3	5.2	5.6	5.5
* TARA	3.7	6.6	6.6	6.5	6.9	5.5	5.2	4.5	5.8	4.8
RUNAWAY	3.9	5.8	6.7	6.7	6.9	6.0	5.4	5.0	5.4	5.0
* PATRIOT	4.4	5.9	6.9	6.6	6.5	4.8	5.1	5.5	5.8	4.6
* BIRDIE II	3.3	5.8	6.9	6.7	6.6	5.7	4.8	5.5	5.7	4.8
PSU-222	4.7	5.8	6.6	6.7	6.7	5.7	5.2	4.7	5.8	5.0
* RODEO	4.7	6.3	6.3	6.4	6.4	5.0	5.2	5.0	5.8	5.0
* BAR LP 410 (BARRAGE)	4.1	5.8	6.6	6.7	6.8	5.3	4.6	5.7	5.3	3.9
* 246	4.3	5.4	5.8	6.5	6.6	6.0	4.8	5.7	5.8	4.5
* BELLE	4.0	6.2	6.8	6.6	6.6	5.2	5.2	5.0	6.0	5.6
* RANGER	4.1	6.2	6.6	6.8	6.9	4.8	5.1	5.3	5.6	5.1
* DERBY	3.3	6.0	7.1	6.7	6.3	5.0	4.9	5.5	5.7	4.8
* BARRY	4.3	6.1	6.4	6.7	6.4	5.0	4.8	4.2	5.4	4.5
ACROBAT	5.8	5.4	6.4	6.6	6.2	5.7	4.8	6.3	5.8	4.0
* REGAL	4.9	5.0	6.9	6.4	6.4	5.0	5.2	4.5	5.5	5.1
* SR 4031 (NOVA)	2.4	5.7	7.0	6.6	6.4	5.3	5.2	5.0	5.7	4.2
* YORKTOWN II	4.9	5.8	6.5	6.5	6.2	4.8	5.2	4.8	5.2	4.0
RIVAL	4.5	6.2	7.0	6.7	6.3	5.0	4.8	4.7	5.5	3.9

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(continued) AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF										
NAME	DC1	ID2	IL2	IN1	KY1	MD1	MI1	MO1	NE1	NJ1
RONJA	4.5	6.1	6.6	6.5	6.2	5.2	5.1	4.8	5.7	3.8
* VINTAGE-2DF	3.7	5.4	6.6	6.7	6.5	5.2	5.1	5.0	6.3	3.6
* MOM LP 763 (TORONTO)	5.5	5.6	6.4	6.7	6.4	5.5	4.9	4.8	4.9	3.8
DEL 946	3.7	5.4	7.3	6.4	6.7	5.8	4.8	4.5	6.2	4.3
* DIPLOMAT	5.2	6.0	6.6	6.5	6.0	4.3	4.9	6.0	5.5	3.6
* SHERIFF	5.2	5.3	6.1	6.4	6.0	5.5	4.5	5.0	5.6	3.8
PAVO	4.7	6.2	6.2	6.7	6.3	4.5	4.6	5.2	5.5	2.8
NK 80389	3.3	6.2	6.5	6.4	6.8	4.5	4.6	4.7	5.2	4.1
* BAR LP 454 (BARCREDO)	3.9	5.9	5.9	6.7	6.1	4.0	4.4	4.3	5.7	3.4
* OVATION	3.6	5.5	5.9	6.7	6.0	4.8	5.1	5.5	4.9	3.7
* BRENDA	3.8	5.9	6.2	6.6	6.3	5.2	4.9	4.5	5.8	4.4
* MANHATTAN	5.1	6.0	6.4	6.4	6.2	5.2	4.7	4.8	5.4	3.3
* ISI-K2 (DILLON)	2.1	5.6	6.4	6.5	6.2	5.2	4.7	5.5	5.5	3.7
* PENNFINE	2.5	5.1	6.7	6.4	6.2	5.8	4.8	5.3	5.5	4.1
* DELRAY	3.1	5.3	6.7	6.3	5.9	5.7	4.6	5.5	5.8	4.5
* COWBOY	2.6	6.3	6.4	6.3	5.9	5.0	4.9	5.0	5.6	4.2
* REGENCY	3.7	5.8	6.0	6.6	5.3	5.0	4.9	4.3	5.9	3.6
J208	4.3	5.8	6.2	6.3	5.7	4.7	4.8	3.8	4.8	3.4
J207	3.7	5.5	6.4	6.7	6.1	4.5	4.5	4.3	5.4	3.2
* LINN	2.5	3.6	6.4	6.4	4.2	3.0	3.1	2.0	4.5	1.6
LSD VALUE	1.9	0.9	0.9	0.4	0.6	1.1	0.6	1.4	0.7	1.0

* COMMERCIALY AVAILABLE IN THE UNITED STATES IN 1991

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
(continued) AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF										
NAME	NJ2	NY1	OH2	OR1	OR2	RI1	SD1	UB1	VA1	MEAN
PST-2PM (SATURN)	6.4	4.8	8.0	6.1	5.9	6.9	6.2	7.3	4.8	6.2
PST-M2E (MAN. II W/E)	6.8	4.8	7.0	6.9	6.2	7.2	6.3	7.1	4.7	6.2
SR 4000	6.5	5.3	6.3	6.1	6.1	7.1	6.7	7.2	5.0	6.2
PICK 300 (BLAZER II)	6.9	5.2	7.3	6.6	6.1	6.7	6.6	4.4	4.9	6.1
PST-259 (COMMANDER)	6.9	4.8	7.3	6.2	6.3	7.0	6.7	7.2	4.7	6.1
SR 4100	5.7	5.4	7.0	5.7	6.1	7.0	6.1	7.4	4.9	6.1
PST-2H7 (DIMENSION)	7.2	5.3	6.7	6.8	6.3	6.6	6.3	7.0	4.9	6.1
REPELL	6.0	5.4	7.0	5.7	6.1	7.3	6.5	6.8	4.8	6.1
PICK 600 (FIESTA II)	6.6	5.0	7.7	6.8	6.1	7.4	6.9	5.0	5.0	6.0
OMEGA II	6.3	5.1	7.0	6.5	5.9	6.7	6.3	6.9	4.7	6.0
PICK 647 (RIVIERA)	6.4	5.3	6.7	5.8	6.0	7.2	6.8	5.4	4.6	5.9
PENNANT	6.2	5.1	6.3	5.6	5.6	6.9	6.1	6.8	4.9	5.9
MANHATTAN II	6.3	4.9	7.0	6.4	6.3	6.4	6.1	6.0	4.7	5.9
PST-250 (COMPETITOR)	6.3	5.1	6.7	6.6	6.1	6.8	6.8	5.9	4.6	5.9
PST-2HH (CHARGER)	6.5	5.1	6.3	7.0	5.9	6.6	6.9	6.4	4.8	5.9
PICK 715 (EDGE)	6.3	5.0	7.0	6.1	5.7	6.7	6.4	7.3	4.7	5.9
PALMER	5.7	4.7	6.3	6.1	5.7	6.7	6.3	5.8	4.9	5.9
PICK 233 (DASHER II)	5.9	5.5	6.3	5.9	6.1	6.9	6.3	7.1	4.9	5.9
CITATION II	6.1	4.4	6.3	6.0	5.9	6.8	6.3	7.4	4.8	5.8
ISI-851 (LINDSAY)	5.8	4.9	6.7	5.8	6.3	6.9	6.6	5.6	5.0	5.8
PST-2DD	6.3	5.2	7.0	7.2	6.4	6.7	6.7	6.4	4.8	5.8
PRELUDE	5.3	4.7	6.3	5.8	5.7	6.8	6.5	5.1	4.7	5.8
GATOR	5.8	5.3	7.3	5.6	6.1	7.1	6.3	3.9	5.0	5.7
ALLAIRE	6.6	5.0	6.7	5.8	5.9	6.4	6.1	4.8	4.2	5.7
PSU-333	5.6	5.0	7.0	5.1	5.5	6.5	6.3	4.6	4.7	5.7
KWS-AL-2 (AQUARIUS)	6.5	4.4	7.0	6.5	6.9	6.3	7.3	3.7	4.4	5.7
CALIENTE	4.9	4.4	6.3	5.3	5.4	6.2	6.1	6.2	4.7	5.7
GOALIE	5.7	4.7	6.3	5.0	5.2	6.7	6.7	4.6	4.8	5.6
TARA	5.8	5.0	7.0	6.5	6.1	7.0	6.3	3.0	4.6	5.6
RUNAWAY	5.8	5.0	6.7	5.2	5.6	6.2	6.5	4.6	4.9	5.6
PATRIOT	5.4	4.9	6.7	5.3	6.0	6.6	6.6	5.2	4.4	5.6
BIRDIE II	5.2	4.9	5.7	5.6	5.9	6.4	5.8	6.8	4.7	5.6
PSU-222	5.0	5.0	6.7	4.9	5.4	6.8	6.6	4.4	4.6	5.6
RODEO	5.7	4.8	7.0	5.8	5.8	6.7	6.0	3.9	4.3	5.6
BAR LP 410 (BARRAGE)	4.3	4.8	7.0	5.3	5.7	6.5	6.3	6.4	4.9	5.6
246	5.3	4.3	6.0	5.8	5.4	6.2	5.9	7.0	4.6	5.6
BELLE	5.2	4.7	6.7	4.7	5.3	6.6	6.8	3.6	4.6	5.5
RANGER	5.1	4.8	6.7	5.6	6.0	6.6	6.8	2.7	4.5	5.5
DERBY	5.3	4.6	6.3	5.1	5.2	6.4	6.2	5.2	4.7	5.5
BARRY	4.7	4.7	6.3	5.9	6.0	6.3	6.6	5.4	4.4	5.5
ACROBAT	4.4	4.6	6.3	5.3	5.5	6.2	6.4	3.3	4.7	5.5
REGAL	5.5	4.2	5.7	4.7	5.1	5.8	5.6	6.5	4.8	5.4
SR 4031 (NOVA)	5.2	4.7	5.7	5.5	5.6	6.1	5.5	6.4	4.8	5.4
YORKTOWN II	4.6	4.9	6.0	5.9	5.4	6.3	6.5	4.6	4.7	5.4
RIVAL	4.3	5.0	6.7	5.1	5.4	6.3	6.0	4.8	4.8	5.4

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(continued) AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF										
NAME	NJ2	NY1	OH2	OR1	OR2	RI1	SD1	UB1	VA1	MEAN
RONJA	4.2	4.9	6.0	5.7	6.0	6.6	6.0	3.6	4.9	5.4
VINTAGE-2DF	3.7	4.4	6.7	4.8	5.6	6.1	5.8	6.3	4.2	5.3
MOM LP 763 (TORONTO)	3.8	4.8	6.7	5.1	5.5	7.1	6.4	2.9	4.4	5.3
DEL 946	4.3	5.1	6.7	4.7	5.0	5.8	6.2	3.8	4.6	5.3
DIPLOMAT	5.0	4.4	5.7	5.3	5.3	6.3	6.3	3.2	4.3	5.3
SHERIFF	4.7	4.3	6.0	5.1	5.5	6.2	6.1	4.4	4.7	5.3
PAVO	3.7	4.9	7.0	4.8	5.6	6.4	6.0	4.8	4.3	5.3
NK 80389	4.7	4.1	6.7	5.2	5.7	6.7	7.1	3.1	4.7	5.3
BAR LP 454 (BARCREDO)	3.8	5.3	6.3	5.1	5.5	6.5	6.9	4.7	5.3	5.3
OVATION	4.0	4.8	6.3	4.9	5.0	6.3	6.8	5.0	4.6	5.2
BRENDA	4.8	4.3	6.0	4.8	5.0	5.8	6.6	4.1	4.2	5.2
MANHATTAN	4.3	4.7	5.7	4.9	5.6	6.4	5.8	3.6	4.4	5.2
ISI-K2 (DILLON)	4.5	4.9	6.7	4.8	5.4	6.4	6.4	3.9	4.3	5.2
PENNFINE	4.5	4.7	5.7	4.6	5.1	6.3	6.6	4.3	4.2	5.2
DELRAY	4.5	4.5	6.7	4.9	4.8	5.3	6.2	3.0	4.7	5.1
COWBOY	4.0	4.6	6.0	5.2	5.5	6.1	5.3	4.2	4.2	5.1
REGENCY	3.8	4.6	6.0	5.0	5.2	6.6	6.3	4.1	4.6	5.1
J208	3.8	5.1	6.3	5.0	5.4	6.1	6.3	4.1	4.5	5.1
J207	3.3	5.1	6.0	4.6	5.3	6.8	6.3	3.9	4.4	5.1
LINN	1.1	3.1	5.0	2.5	3.7	3.9	4.9	2.2	3.0	3.5
LSD VALUE	1.0	0.6	1.0	0.7	0.5	0.7	0.5	1.3	0.6	0.2

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 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT NINETEEN LOCATIONS IN THE UNITED STATES 1990 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 (SATURN)	6.0	6.0	5.9	6.3	6.4	6.0	6.1	6.1	5.9	6.3	6.6	6.0	6.2
PST-M2E (MAN. II W/E)	6.0	5.7	5.7	6.4	6.4	6.0	6.1	6.1	6.1	6.6	7.4	6.3	6.2
SR 4000	5.3	5.3	5.2	6.3	6.2	6.2	6.2	6.2	5.8	6.8	6.7	6.7	6.2
PICK 300 (BLAZER II)	4.7	5.5	5.9	6.4	6.5	6.1	5.7	6.1	5.9	6.1	6.3	7.0	6.1
PST-259 (COMMANDER)	6.3	5.8	5.7	6.4	6.3	6.0	6.2	6.0	6.0	6.1	7.1	6.3	6.1
PST-2H7 (DIMENSION)	6.0	6.0	5.9	6.5	6.3	5.9	6.0	6.1	5.9	6.5	7.1	7.3	6.1
SR 4100	5.3	5.0	5.2	6.2	6.3	6.2	6.4	5.9	5.6	6.4	6.5	5.7	6.1
REPELL	6.0	5.3	5.9	6.0	6.5	6.2	6.0	5.9	5.8	6.4	6.3	5.3	6.1
PICK 600 (FIESTA II)	5.7	5.8	6.0	6.3	6.1	5.9	5.6	6.1	5.8	6.1	6.5	6.0	6.0
OMEGA II	6.3	5.5	5.3	6.1	6.1	5.8	6.0	6.0	5.6	6.2	6.7	7.0	6.0
PICK 647 (RIVIERA)	5.7	5.8	5.7	6.1	6.2	6.0	5.8	5.9	5.7	6.1	6.2	5.3	5.9
PENNANT	6.0	5.7	5.7	5.9	6.1	5.9	6.1	5.9	5.7	5.9	6.1	5.7	5.9
MANHATTAN II	6.3	5.8	5.8	6.1	6.2	5.8	5.8	5.7	5.8	6.1	6.5	6.3	5.9
PST-250 (COMPETITOR)	5.7	5.7	5.5	6.4	6.2	5.8	5.7	5.8	5.8	6.1	6.5	7.3	5.9
PST-2HH (CHARGER)	5.7	5.7	5.7	6.1	5.9	5.8	5.9	6.1	5.8	6.3	6.6	7.0	5.9
PICK 715 (EDGE)	5.3	5.3	5.2	6.1	5.9	5.8	5.8	5.8	5.7	6.1	6.3	7.3	5.9
PALMER	5.7	5.5	6.2	5.9	6.0	5.9	5.7	6.0	5.6	6.0	6.1	5.7	5.9
PICK 233 (DASHER II)	5.7	5.8	5.2	6.1	6.1	5.9	5.8	5.7	5.5	6.4	6.7	6.7	5.9
CITATION II	6.7	6.0	5.5	6.4	6.0	5.6	5.5	5.6	5.5	6.1	6.3	6.0	5.8
ISI-851 (LINDSAY)	5.3	5.2	5.1	6.1	5.9	5.6	5.5	5.7	5.8	6.3	6.3	6.3	5.8
PST-2DD	6.7	5.7	5.6	5.9	6.2	5.9	5.7	5.5	5.7	6.3	6.9	6.7	5.8
PRELUDE	5.7	5.2	5.8	6.0	5.8	5.6	5.6	5.7	5.6	5.8	6.3	6.0	5.8
GATOR	5.3	5.3	5.3	5.9	6.2	5.7	5.2	5.6	5.5	6.0	6.1	5.7	5.7
ALLAIRE	4.7	5.0	5.5	6.1	5.7	5.8	5.6	5.6	5.5	5.7	5.8	6.0	5.7
PSU-333	5.0	5.0	5.4	5.7	5.8	5.5	5.7	5.6	5.5	5.7	5.5	5.3	5.7
KWS-AL-2 (AQUARIUS)	5.3	6.0	5.1	6.1	5.8	5.8	5.3	5.4	5.5	5.9	6.3	7.3	5.7
CALIENTE	4.7	5.0	5.5	5.8	5.9	5.5	5.7	5.5	5.5	5.5	5.3	5.7	5.7
TARA	5.7	5.5	5.7	5.9	5.7	5.6	5.5	5.9	5.3	5.8	5.7	5.3	5.6
GOALIE	5.0	5.5	5.5	5.6	5.7	5.4	5.7	5.7	5.5	5.5	5.5	5.0	5.6
RUNAWAY	5.3	5.0	5.3	5.9	6.0	5.5	5.4	5.4	5.2	5.9	5.6	5.0	5.6
PATRIOT	4.7	5.2	5.1	5.9	5.6	5.5	5.7	5.5	5.4	5.9	5.9	5.3	5.6
BIRDIE II	6.3	6.0	5.1	5.8	5.7	5.5	5.7	5.5	5.4	6.0	5.9	6.3	5.6
PSU-222	4.7	5.2	5.4	5.6	5.6	5.6	5.6	5.5	5.2	5.7	5.3	5.0	5.6
RODEO	4.3	4.7	5.1	5.7	5.7	5.6	5.6	5.5	5.1	5.8	5.8	5.7	5.6
BAR LP 410 (BARRAGE)	4.7	5.2	5.2	6.0	5.8	5.4	5.5	5.2	5.4	6.0	5.2	5.3	5.6
246	5.3	5.2	5.5	6.0	5.6	5.3	5.3	5.1	5.6	6.0	6.4	6.7	5.6
BELLE	4.7	4.5	5.4	5.7	5.8	5.5	5.5	5.4	5.2	5.5	4.9	4.7	5.5
RANGER	6.0	5.3	5.3	5.4	5.9	5.4	5.3	5.5	5.5	5.6	5.7	5.7	5.5
DERBY	5.0	4.8	5.0	5.6	5.6	5.5	5.6	5.3	5.0	5.6	5.3	5.0	5.5
BARRY	6.0	5.8	5.1	5.6	6.0	5.5	5.4	5.4	5.1	5.8	5.6	5.7	5.5
ACROBAT	4.7	4.3	5.3	5.4	5.7	5.2	5.1	5.5	5.3	5.8	5.2	4.7	5.5
REGAL	4.0	4.2	5.1	5.6	5.6	5.6	5.6	5.3	5.1	5.6	5.3	5.3	5.4
SR 4031 (NOVA)	5.3	5.2	5.1	5.9	5.6	5.3	5.3	5.3	5.2	5.6	5.9	5.3	5.4
YORKTOWN II	6.3	5.5	5.6	5.2	5.6	5.5	5.6	5.3	5.1	5.7	5.4	6.3	5.4
RIVAL	4.3	4.7	5.1	5.3	5.6	5.6	5.3	5.3	5.3	5.7	4.7	4.7	5.4

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR
(continued) EACH MONTH GROWN AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 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	5.3	5.2	5.1	5.8	5.8	5.5	5.0	5.1	5.1	5.8	5.1	5.3	5.4
VINTAGE-2DF	4.0	4.8	5.1	5.4	5.5	5.1	5.2	5.0	5.2	5.9	5.6	5.3	5.3
MOM LP 763 (TORONTO)	5.0	4.8	5.2	5.2	5.6	5.3	5.3	5.3	5.1	5.6	4.5	5.7	5.3
DEL 946	4.7	4.7	5.4	5.4	5.5	5.3	5.2	5.2	5.1	5.3	4.3	5.3	5.3
DIPLOMAT	5.7	5.2	5.9	5.2	5.4	5.2	5.2	5.1	4.8	5.3	4.9	5.3	5.3
SHERIFF	5.0	5.2	5.5	5.4	5.4	5.1	5.3	5.0	5.1	5.5	5.1	5.3	5.3
PAVO	4.0	5.0	5.1	5.1	5.6	5.2	5.3	5.0	5.1	5.6	4.7	4.3	5.3
NK 80389	5.3	5.2	5.1	5.1	5.4	5.2	5.2	5.3	4.9	5.6	5.2	6.3	5.3
BAR LP 454 (BARCREDO)	5.3	4.8	4.7	5.5	5.6	5.3	5.1	5.3	5.0	6.0	4.6	4.7	5.3
OVATION	4.7	4.3	4.9	5.3	5.5	5.2	5.1	5.0	4.9	5.7	4.9	4.7	5.2
BRENDA	4.7	4.5	5.1	5.1	5.3	5.1	5.3	5.1	5.1	5.3	4.9	4.3	5.2
MANHATTAN	5.0	5.2	5.6	5.3	5.5	5.3	5.1	4.9	5.0	5.2	4.5	5.0	5.2
ISI-K2 (DILLON)	5.0	5.0	4.5	5.5	5.4	5.1	5.1	4.8	4.8	5.6	4.7	4.7	5.2
PENNFINE	4.3	4.7	4.7	5.4	5.3	5.2	5.2	5.0	4.9	5.2	4.3	4.7	5.2
DELRAY	5.0	4.8	4.7	5.1	5.0	5.0	5.2	5.0	4.8	5.2	4.4	4.7	5.1
COWBOY	5.0	5.3	4.6	5.2	5.2	4.8	5.1	5.1	4.8	5.4	5.4	6.0	5.1
REGENCY	4.7	4.8	5.1	5.0	5.3	5.1	5.2	5.0	4.8	5.6	4.5	5.0	5.1
J208	4.7	4.8	4.9	5.0	5.7	5.1	4.8	5.0	4.8	5.5	5.0	5.0	5.1
J207	4.7	4.7	5.0	5.3	5.4	5.1	5.1	4.8	4.7	5.5	4.2	4.3	5.1
LINN	2.0	2.8	3.4	3.3	4.0	3.5	3.7	3.1	3.7	3.8	2.4	2.7	3.5
LSD VALUE	1.1	0.8	1.0	0.5	0.6	0.5	0.6	0.7	0.7	0.7	0.8	1.7	0.4

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 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES 1/
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING 2/										
NAME	DC1	ID2	IL2	IN1	KY1	MD1	MI1	MO1	NE1	NJ1
PST-2PM (SATURN)	12.0	34.0	5.5	4.0	18.0	26.5	4.0	11.5	4.0	1.0
PST-M2E (MAN. II W/E)	25.0	20.5	23.0	1.0	4.5	18.0	15.5	6.0	48.5	2.0
SR 4000	56.5	11.0	12.5	15.0	6.0	4.5	2.0	6.0	7.5	3.0
PICK 300 (BLAZER II)	4.0	6.5	20.0	2.0	2.5	18.0	6.0	6.0	4.0	16.0
PST-259 (COMMANDER)	13.5	11.0	8.5	8.0	16.5	26.5	29.5	40.0	11.5	7.5
SR 4100	32.0	5.0	1.0	8.0	4.5	7.5	24.5	2.0	33.5	6.0
PST-2H7 (DIMENSION)	48.0	1.0	27.0	42.0	8.0	53.5	1.0	19.0	22.5	4.0
REPELL	5.0	8.5	12.5	12.5	1.0	7.5	13.0	27.0	22.5	22.0
PICK 600 (FIESTA II)	52.0	14.5	30.0	12.5	13.0	39.5	10.0	6.0	1.5	20.0
OMEGA II	53.0	3.5	53.5	3.0	2.5	26.5	13.0	11.5	41.5	18.5
PICK 647 (RIVIERA)	38.5	11.0	4.0	20.0	7.0	53.5	5.0	19.0	33.5	7.5
PENNANT	13.5	8.5	8.5	15.0	35.0	39.5	15.5	19.0	7.5	13.0
MANHATTAN II	31.0	3.5	23.0	11.0	33.5	18.0	7.5	32.5	22.5	14.0
PST-250 (COMPETITOR)	25.0	34.0	25.0	20.0	29.0	33.0	38.5	11.5	22.5	10.5
PST-2HH (CHARGER)	59.0	20.5	7.0	15.0	16.5	4.5	3.0	48.5	33.5	36.0
PICK 715 (EDGE)	58.0	55.0	46.0	8.0	29.0	2.0	38.5	11.5	15.0	10.5
PALMER	1.5	20.5	41.0	8.0	29.0	2.0	20.0	27.0	33.5	18.5
PICK 233 (DASHER II)	56.5	41.5	43.5	22.5	9.0	11.5	10.0	32.5	41.5	9.0
CITATION II	64.0	41.5	16.5	33.5	10.0	2.0	10.0	6.0	60.0	17.0
ISI-851 (LINDSAY)	46.0	29.5	37.5	39.5	23.0	26.5	13.0	27.0	22.5	21.0
PST-2DD	54.0	2.0	.	17.5	13.0	58.0	45.0	64.0	57.5	31.5
PRELUDE	10.0	14.5	16.5	33.5	38.5	26.5	20.0	27.0	11.5	29.0
GATOR	27.5	34.0	55.0	8.0	20.0	33.0	20.0	48.5	11.5	25.0
ALLAIRE	21.5	41.5	27.0	5.0	23.0	18.0	20.0	40.0	7.5	27.0
PSU-333	8.0	41.5	16.5	20.0	36.5	11.5	29.5	40.0	15.0	27.0
KWS-AL-2 (AQUARIUS)	50.5	26.0	59.0	65.0	47.5	58.0	7.5	40.0	48.5	5.0
CALIENTE	9.0	41.5	5.5	39.5	29.0	18.0	49.0	27.0	33.5	27.0
GOALIE	23.0	37.5	2.0	33.5	42.0	33.0	20.0	32.5	41.5	15.0
TARA	44.0	6.5	37.5	50.5	13.0	26.5	24.5	56.5	22.5	34.0
RUNAWAY	36.5	47.5	27.0	22.5	13.0	7.5	17.0	40.0	54.5	31.5
PATRIOT	25.0	34.0	20.0	44.5	33.5	53.5	35.5	19.0	22.5	38.0
BIRDIE II	50.5	47.5	16.5	33.5	29.0	18.0	49.0	19.0	33.5	36.0
PSU-222	18.5	47.5	34.5	26.0	25.0	18.0	29.5	53.0	22.5	31.5
RODEO	18.5	14.5	53.5	56.0	42.0	47.0	29.5	40.0	15.0	31.5
BAR LP 410 (BARRAGE)	33.0	47.5	37.5	33.5	20.0	33.0	58.0	11.5	57.5	51.0
246	27.5	58.0	64.0	50.5	29.0	7.5	49.0	11.5	22.5	41.0
BELLE	35.0	20.5	23.0	42.0	29.0	39.5	24.5	40.0	7.5	12.0
RANGER	34.0	20.5	37.5	17.5	13.0	53.5	33.5	27.0	41.5	23.5
DERBY	48.0	29.5	10.0	33.5	45.0	47.0	41.0	19.0	33.5	36.0
BARRY	29.5	26.0	50.0	26.0	42.0	47.0	54.0	62.0	54.5	39.5
ACROBAT	1.5	58.0	50.0	44.5	52.5	18.0	52.0	1.0	22.5	49.0
REGAL	15.0	64.0	20.0	56.0	42.0	47.0	24.5	56.5	48.5	23.5
SR 4031 (NOVA)	63.0	51.0	12.5	42.0	42.0	33.0	29.5	40.0	33.5	45.0
YORKTOWN II	16.0	47.5	41.0	50.5	52.5	53.5	29.5	48.5	60.0	48.0
RIVAL	21.5	20.5	12.5	26.0	47.5	47.0	54.0	53.0	48.5	50.0

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
(continued) CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING										
NAME	DC1	ID2	IL2	IN1	KY1	MD1	MI1	MO1	NE1	NJ1
RONJA	20.0	26.0	32.5	50.5	52.5	39.5	35.5	48.5	33.5	53.5
VINTAGE-2DF	41.5	58.0	32.5	33.5	36.5	39.5	33.5	40.0	1.5	57.5
MOM LP 763 (TORONTO)	3.0	52.5	43.5	33.5	38.5	26.5	45.0	48.5	62.5	52.0
DEL 946	41.5	60.0	3.0	54.0	23.0	11.5	54.0	56.5	4.0	43.0
DIPLOMAT	6.5	29.5	34.5	50.5	60.0	63.0	43.0	3.0	48.5	57.5
SHERIFF	6.5	61.0	60.0	59.5	58.5	26.5	62.5	40.0	41.5	53.5
PAVO	17.0	20.5	56.0	33.5	47.5	61.0	60.0	32.5	48.5	64.0
NK 80389	48.0	20.5	41.0	59.5	20.0	61.0	59.0	53.0	60.0	46.0
BAR LP 454 (BARCREDO)	36.5	34.0	62.0	26.0	56.5	64.0	64.0	60.0	33.5	61.0
OVATION	45.0	55.0	63.0	26.0	58.5	53.5	37.0	19.0	62.5	56.0
BRENDA	38.5	37.5	57.5	46.5	47.5	39.5	40.0	56.5	22.5	42.0
MANHATTAN	11.0	29.5	50.0	59.5	52.5	39.5	57.0	48.5	54.5	62.0
ISI-K2 (DILLON)	65.0	52.5	50.0	50.5	52.5	39.5	56.0	19.0	48.5	55.0
PENNFINE	61.5	63.0	30.0	59.5	52.5	11.5	49.0	27.0	48.5	47.0
DELRAY	55.0	62.0	30.0	63.0	62.0	18.0	61.0	19.0	22.5	39.5
COWBOY	60.0	14.5	50.0	64.0	61.0	47.0	42.0	40.0	41.5	44.0
REGENCY	41.5	47.5	61.0	46.5	64.0	47.0	45.0	60.0	11.5	59.0
J208	29.5	41.5	57.5	62.0	63.0	58.0	49.0	63.0	64.0	60.0
J207	41.5	55.0	46.0	33.5	56.5	61.0	62.5	60.0	54.5	63.0
LINN	61.5	65.0	46.0	56.0	65.0	65.0	65.0	65.0	65.0	65.0

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

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
(continued) CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES 1/
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING 2/										
NAME	NJ2	NY1	OH2	OR1	OR2	RI1	SD1	UB1	VA1	MEAN
PST-2PM (SATURN)	10.5	37.5	1.0	13.0	24.0	12.5	46.5	3.5	16.5	1
PST-M2E (MAN. II W/E)	4.0	41.0	12.0	3.0	7.0	3.5	37.5	8.0	27.0	2
SR 4000	8.0	6.5	43.0	14.5	10.0	6.0	12.5	5.5	3.5	3
PICK 300 (BLAZER II)	2.5	9.0	4.0	6.0	13.0	20.5	21.0	43.0	12.0	4
PST-259 (COMMANDER)	2.5	37.5	4.0	12.0	4.0	9.0	12.5	5.5	27.0	5
SR 4100	26.5	3.0	12.0	29.0	15.0	9.0	50.5	2.0	7.0	6
PST-2H7 (DIMENSION)	1.0	6.5	27.0	4.5	4.0	34.0	33.0	9.0	12.0	7
REPELL	19.0	2.0	12.0	27.5	10.0	2.0	23.5	13.0	16.5	8
PICK 600 (FIESTA II)	5.5	23.0	2.0	4.5	10.0	1.0	3.0	32.0	3.5	9
OMEGA II	15.0	15.5	12.0	10.0	24.0	25.0	33.0	11.0	34.5	10
PICK 647 (RIVIERA)	10.5	6.5	27.0	23.5	17.0	3.5	9.0	26.0	46.5	11
PENNANT	17.0	15.5	43.0	32.0	38.0	11.0	52.5	13.0	9.5	12
MANHATTAN II	12.5	29.0	12.0	11.0	6.0	39.5	48.5	22.0	34.5	13
PST-250 (COMPETITOR)	15.0	15.5	27.0	7.0	10.0	15.5	9.0	23.0	39.5	14
PST-2HH (CHARGER)	8.0	12.5	43.0	2.0	24.0	28.5	4.5	17.0	21.0	15
PICK 715 (EDGE)	12.5	18.0	12.0	14.5	31.5	22.0	29.0	3.5	34.5	16
PALMER	26.5	48.0	43.0	16.0	31.5	25.0	37.5	24.0	14.0	17
PICK 233 (DASHER II)	20.0	1.0	43.0	18.0	15.0	14.0	41.0	7.0	12.0	18
CITATION II	18.0	57.5	43.0	17.0	24.0	15.5	33.0	1.0	21.0	19
ISI-851 (LINDSAY)	21.5	29.0	27.0	21.5	4.0	12.5	17.0	25.0	3.5	20
PST-2DD	15.0	10.0	12.0	1.0	2.0	25.0	12.5	16.0	16.5	21
PRELUDE	33.5	44.0	43.0	23.5	29.5	18.5	23.5	30.0	27.0	22
GATOR	23.5	6.5	4.0	32.0	15.0	6.0	33.0	52.0	3.5	23
ALLAIRE	5.5	19.5	27.0	26.0	24.0	42.0	52.5	34.0	63.0	24
PSU-333	29.0	23.0	12.0	43.0	42.0	36.0	41.0	37.5	27.0	25
KWS-AL-2 (AQUARIUS)	8.0	57.5	12.0	8.0	1.0	45.5	1.0	54.0	54.5	26
CALIENTE	41.0	55.5	43.0	35.0	48.0	55.0	50.5	21.0	34.5	27
GOALIE	26.5	44.0	43.0	49.0	56.5	25.0	12.5	39.5	21.0	28
TARA	21.5	23.0	12.0	9.0	10.0	9.0	41.0	62.0	39.5	29
RUNAWAY	23.5	23.0	27.0	41.0	35.0	52.5	23.5	39.5	7.0	30
PATRIOT	31.0	32.0	27.0	36.0	21.0	30.0	17.0	28.0	50.0	31
BIRDIE II	36.0	29.0	61.5	30.0	27.0	39.5	60.5	13.0	34.5	32
PSU-222	39.5	19.5	27.0	52.5	48.0	17.0	19.5	41.5	42.5	33
RODEO	26.5	34.0	12.0	25.0	28.0	20.5	55.5	50.0	59.0	34
BAR LP 410 (BARRAGE)	51.0	37.5	12.0	38.5	29.5	36.0	41.0	18.5	9.5	35
246	32.0	61.5	54.5	21.5	51.0	55.0	58.0	10.0	42.5	36
BELLE	36.0	48.0	27.0	62.0	53.0	28.5	6.5	56.0	42.5	37
RANGER	38.0	37.5	27.0	32.0	18.5	32.0	6.5	64.0	48.5	38
DERBY	33.5	53.0	43.0	46.0	56.5	38.0	45.0	29.0	27.0	39
BARRY	44.0	44.0	43.0	20.0	18.5	49.0	15.0	27.0	54.5	40
ACROBAT	50.0	52.0	43.0	38.5	45.0	52.5	26.5	58.0	34.5	41
REGAL	30.0	63.0	61.5	61.0	60.0	63.0	62.0	15.0	16.5	42
SR 4031 (NOVA)	36.0	44.0	61.5	34.0	35.0	59.5	63.0	18.5	21.0	43
YORKTOWN II	46.0	32.0	54.5	19.0	51.0	45.5	23.5	37.5	27.0	44
RIVAL	53.0	23.0	27.0	48.0	46.0	49.0	55.5	34.0	21.0	45

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
(continued) CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING										
NAME	NJ2	NY1	OH2	OR1	OR2	RI1	SD1	UB1	VA1	MEAN
RONJA	55.0	32.0	54.5	27.5	20.0	32.0	55.5	55.0	7.0	46
VINTAGE-2DF	62.5	59.0	27.0	56.5	38.0	59.5	60.5	20.0	60.5	47
MOM LP 763 (TORONTO)	58.5	37.5	27.0	44.0	42.0	6.0	28.0	63.0	52.0	48
DEL 946	53.0	12.5	27.0	60.0	62.0	61.5	46.5	53.0	45.0	49
DIPLOMAT	39.5	55.5	61.5	37.0	55.0	49.0	33.0	59.0	56.5	50
SHERIFF	44.0	60.0	54.5	46.0	42.0	55.0	48.5	41.5	34.5	51
PAVO	62.5	26.0	12.0	58.0	35.0	44.0	55.5	34.0	56.5	52
NK 80389	44.0	64.0	27.0	40.0	33.0	25.0	2.0	60.0	34.5	53
BAR LP 454 (BARCREDO)	58.5	4.0	43.0	46.0	42.0	36.0	4.5	36.0	1.0	54
OVATION	56.5	37.5	43.0	55.0	62.0	49.0	9.0	31.0	42.5	55
BRENDA	42.0	61.5	54.5	59.0	62.0	61.5	19.5	48.0	60.5	56
MANHATTAN	53.0	44.0	61.5	54.0	38.0	42.0	59.0	57.0	52.0	57
ISI-K2 (DILLON)	48.0	27.0	27.0	56.5	48.0	42.0	26.5	49.0	58.0	58
PENNFINE	48.0	48.0	61.5	63.0	59.0	49.0	17.0	44.0	63.0	59
DELRAY	48.0	54.0	27.0	52.5	64.0	64.0	44.0	61.0	27.0	60
COWBOY	56.5	50.5	54.5	42.0	42.0	57.5	64.0	45.0	63.0	61
REGENCY	60.5	50.5	54.5	51.0	58.0	32.0	33.0	46.0	46.5	62
J208	60.5	15.5	43.0	50.0	51.0	57.5	41.0	47.0	48.5	63
J207	64.0	11.0	54.5	64.0	54.0	18.5	33.0	51.0	52.0	64
LINN	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65

- 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
1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/				
NAME	ID2	OH2	SD1	MEAN
REGAL	8.0	7.0	7.3	7.4
PST-2DD	7.3	7.7	7.0	7.3
PST-2H7 (DIMENSION)	8.0	7.0	7.0	7.3
PST-2HH (CHARGER)	7.3	7.0	7.7	7.3
PICK 600 (FIESTA II)	7.0	7.7	7.0	7.2
PICK 300 (BLAZER II)	7.3	7.3	7.0	7.2
KWS-AL-2 (AQUARIUS)	7.0	7.3	7.0	7.1
PICK 647 (RIVIERA)	7.0	7.0	7.3	7.1
PST-250 (COMPETITOR)	7.0	7.3	7.0	7.1
PST-2PM (SATURN)	7.0	7.3	7.0	7.1
PST-M2E (MAN. II W/E)	7.0	7.0	7.3	7.1
SR 4000	7.3	7.0	7.0	7.1
BELLE	7.0	7.0	7.0	7.0
DERBY	7.0	7.3	6.7	7.0
MANHATTAN II	7.0	7.0	7.0	7.0
OMEGA II	7.0	7.0	7.0	7.0
PATRIOT	7.0	7.0	7.0	7.0
PICK 233 (DASHER II)	7.0	7.0	7.0	7.0
PST-259 (COMMANDER)	7.0	7.0	7.0	7.0
RODEO	7.0	7.0	7.0	7.0
ACROBAT	6.7	7.0	7.0	6.9
ALLAIRE	6.7	7.0	7.0	6.9
BARRY	6.7	7.0	7.0	6.9
ISI-851 (LINDSAY)	6.7	7.0	7.0	6.9
ISI-K2 (DILLON)	6.7	7.0	7.0	6.9
PENNANT	6.7	7.0	7.0	6.9
PENNFINE	6.7	7.0	7.0	6.9
PSU-333	7.3	7.0	6.3	6.9
BRENDA	6.5	7.0	7.0	6.8
RUNAWAY	6.5	7.0	7.0	6.8
CITATION II	6.7	7.0	6.7	6.8
COWBOY	6.7	6.7	7.0	6.8
PICK 715 (EDGE)	6.7	7.0	6.7	6.8
PRELUDE	6.7	7.0	6.7	6.8
246	7.0	7.0	6.3	6.8
SR 4100	6.5	7.0	6.7	6.7
DELRAY	7.0	7.0	6.0	6.7
GATOR	6.7	7.0	6.3	6.7
J207	6.3	7.0	6.7	6.7
MANHATTAN	6.7	7.0	6.3	6.7
NK 80389	6.3	7.0	6.7	6.7
PALMER	6.7	7.0	6.3	6.7
RANGER	6.3	6.7	7.0	6.7
REPELL	6.3	7.0	6.7	6.7
TARA	6.3	7.0	6.7	6.7

GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

NAME	ID2	OH2	SD1	MEAN
DEL 946	6.5	7.0	6.3	6.6
BAR LP 410 (BARRAGE)	6.7	7.0	6.0	6.6
CALIENTE	6.7	7.0	6.0	6.6
GOALIE	6.0	7.0	6.7	6.6
PSU-222	6.7	7.0	6.0	6.6
REGENCY	6.0	7.0	6.7	6.6
RIVAL	6.7	7.0	6.0	6.6
SHERIFF	6.0	7.0	6.7	6.6
VINTAGE-2DF	6.3	6.7	6.7	6.6
SR 4031 (NOVA)	6.3	7.0	6.3	6.6
BAR LP 454 (BARCREDO)	6.0	7.0	6.3	6.4
BIRDIE II	6.3	6.7	6.3	6.4
DIPLOMAT	6.0	7.0	6.3	6.4
J208	6.3	7.0	6.0	6.4
OVATION	6.3	7.0	6.0	6.4
PAVO	6.3	7.0	6.0	6.4
RONJA	5.7	7.3	6.3	6.4
YORKTOWN II	6.3	7.0	6.0	6.4
LINN	5.7	6.7	6.0	6.1
MOM LP 763 (TORONTO)	5.7	6.7	6.0	6.1
LSD VALUE	0.9	0.4	0.6	0.4

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

TABLE 5. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 1/			
NAME	ID2	SD1	MEAN
KWS-AL-2 (AQUARIUS)	7.7	7.7	7.7
NK 80389	6.3	8.0	7.2
PST-2DD	7.0	7.3	7.2
RODEO	7.3	7.0	7.2
ISI-851 (LINDSAY)	7.0	7.0	7.0
OVATION	6.3	7.7	7.0
PATRIOT	7.0	7.0	7.0
ALLAIRE	6.7	7.0	6.8
MANHATTAN II	6.7	7.0	6.8
PST-M2E (MAN. II W/E)	6.7	7.0	6.8
RANGER	6.7	7.0	6.8
J208	6.3	7.3	6.8
YORKTOWN II	6.3	7.3	6.8
PICK 600 (FIESTA II)	5.7	7.7	6.7
BELLE	6.0	7.3	6.7
ISI-K2 (DILLON)	6.3	7.0	6.7
OMEGA II	6.3	7.0	6.7
PALMER	6.3	7.0	6.7
PICK 647 (RIVIERA)	6.3	7.0	6.7
PST-250 (COMPETITOR)	6.3	7.0	6.7
PST-2HH (CHARGER)	6.3	7.0	6.7
REGENCY	6.3	7.0	6.7
RIVAL	6.3	7.0	6.7
RONJA	6.3	7.0	6.7
BAR LP 410 (BARRAGE)	6.0	7.0	6.5
BAR LP 454 (BARCREDO)	6.0	7.0	6.5
BARRY	6.0	7.0	6.5
BRENDA	6.0	7.0	6.5
CALIENTE	6.0	7.0	6.5
CITATION II	6.3	6.7	6.5
DIPLOMAT	6.0	7.0	6.5
GOALIE	6.0	7.0	6.5
MOM LP 763 (TORONTO)	6.0	7.0	6.5
PICK 233 (DASHER II)	6.0	7.0	6.5
PICK 715 (EDGE)	6.0	7.0	6.5
PRELUDE	6.3	6.7	6.5
PST-259 (COMMANDER)	6.0	7.0	6.5
PSU-222	6.0	7.0	6.5
REPELL	5.7	7.3	6.5
RUNAWAY	6.0	7.0	6.5
SR 4000	6.0	7.0	6.5
SR 4100	6.0	7.0	6.5
TARA	6.0	7.0	6.5
ACROBAT	5.7	7.0	6.3
COWBOY	6.0	6.7	6.3

LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	ID2	SD1	MEAN
PENNANT	5.7	7.0	6.3
PENNFINE	5.7	7.0	6.3
PICK 300 (BLAZER II)	6.0	6.7	6.3
PST-2H7 (DIMENSION)	6.0	6.7	6.3
PSU-333	6.0	6.7	6.3
SHERIFF	5.7	7.0	6.3
VINTAGE-2DF	6.3	6.3	6.3
DEL 946	5.5	7.0	6.3
DERBY	5.5	7.0	6.3
246	5.7	6.7	6.2
DELRAY	5.7	6.7	6.2
J207	5.7	6.7	6.2
PST-2PM (SATURN)	5.7	6.7	6.2
BIRDIE II	6.0	6.3	6.2
GATOR	6.0	6.3	6.2
PAVO	5.3	7.0	6.2
REGAL	6.0	6.3	6.2
SR 4031 (NOVA)	6.0	6.3	6.2
MANHATTAN	5.7	6.3	6.0
LINN	4.7	6.0	5.3
LSD VALUE	0.9	0.6	0.5

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

TABLE 6. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

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

NAME	SD1	MEAN
BAR LP 454 (BARCREDO)	7.0	7.0
BRENDA	7.0	7.0
CALIENTE	7.0	7.0
DIPLOMAT	7.0	7.0
GOALIE	7.0	7.0
J207	7.0	7.0
PENNFINE	7.0	7.0
PRELUDE	7.0	7.0
PST-250 (COMPETITOR)	7.0	7.0
RANGER	7.0	7.0
REGENCY	7.0	7.0
SR 4000	7.0	7.0
YORKTOWN II	7.0	7.0
ACROBAT	6.7	6.7
BAR LP 410 (BARRAGE)	6.7	6.7
BELIE	6.7	6.7
DEL 946	6.7	6.7
DELRAY	6.7	6.7
MOM LP 763 (TORONTO)	6.7	6.7
OVATION	6.7	6.7
PATRIOT	6.7	6.7
PAVO	6.7	6.7
PSU-222	6.7	6.7
PSU-333	6.7	6.7
RUNAWAY	6.7	6.7
BARRY	6.3	6.3
BIRDIE II	6.3	6.3
DERBY	6.3	6.3
GATOR	6.3	6.3
J208	6.3	6.3
MANHATTAN	6.3	6.3
NK 80389	6.3	6.3
PICK 300 (BLAZER II)	6.3	6.3
PICK 647 (RIVIERA)	6.3	6.3
PST-2PM (SATURN)	6.3	6.3
SHERIFF	6.3	6.3
TARA	6.3	6.3
246	6.0	6.0
CITATION II	6.0	6.0
ISI-851 (LINDSAY)	6.0	6.0
MANHATTAN II	6.0	6.0
PALMER	6.0	6.0
PENNANT	6.0	6.0
PICK 600 (FIESTA II)	6.0	6.0
PST-259 (COMMANDER)	6.0	6.0

SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	SD1	MEAN
PST-2H7 (DIMENSION)	6.0	6.0
PST-2HH (CHARGER)	6.0	6.0
RIVAL	6.0	6.0
RONJA	6.0	6.0
SR 4100	6.0	6.0
VINTAGE-2DF	6.0	6.0
ISI-K2 (DILLON)	5.7	5.7
KWS-AL-2 (AQUARIUS)	5.7	5.7
PICK 233 (DASHER II)	5.7	5.7
PST-M2E (MAN. II W/E)	5.7	5.7
REGAL	5.7	5.7
REPELL	5.7	5.7
SR 4031 (NOVA)	5.7	5.7
ALLAIRE	5.3	5.3
COWBOY	5.3	5.3
OMEGA II	5.3	5.3
PICK 715 (EDGE)	5.3	5.3
PST-2DD	5.3	5.3
RODEO	5.3	5.3
LINN	4.0	4.0
LSD VALUE	0.7	0.7

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

TABLE 7. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 1/			
NAME	ID2	SD1	MEAN
PST-2DD	8.0	7.3	7.7
KWS-AL-2 (AQUARIUS)	7.0	8.0	7.5
PICK 300 (BLAZER II)	7.3	7.7	7.5
BAR LP 410 (BARRAGE)	7.0	7.7	7.3
DIPLOMAT	7.0	7.7	7.3
NK 80389	7.0	7.7	7.3
PST-2HH (CHARGER)	7.0	7.7	7.3
PSU-222	6.7	8.0	7.3
SR 4000	6.7	8.0	7.3
BAR LP 454 (BARCREDO)	6.0	8.7	7.3
PICK 600 (FIESTA II)	7.3	7.3	7.3
BELLE	6.7	7.7	7.2
PST-250 (COMPETITOR)	6.7	7.7	7.2
PST-259 (COMMANDER)	6.7	7.7	7.2
PSU-333	6.7	7.7	7.2
OVATION	6.3	8.0	7.2
PICK 647 (RIVIERA)	7.0	7.3	7.2
BRENDA	6.0	8.0	7.0
GATOR	6.3	7.7	7.0
GOALIE	6.0	8.0	7.0
ISI-851 (LINDSAY)	6.7	7.3	7.0
MANHATTAN	7.0	7.0	7.0
OMEGA II	7.3	6.7	7.0
PENNFINE	6.0	8.0	7.0
PICK 233 (DASHER II)	7.0	7.0	7.0
PICK 715 (EDGE)	6.3	7.7	7.0
PRELUDE	6.3	7.7	7.0
RANGER	6.7	7.3	7.0
RIVAL	6.7	7.3	7.0
SR 4100	7.0	7.0	7.0
TARA	6.7	7.3	7.0
BARRY	6.7	7.0	6.8
BIRDIE II	6.7	7.0	6.8
PATRIOT	6.7	7.0	6.8
PST-2H7 (DIMENSION)	6.7	7.0	6.8
PST-M2E (MAN. II W/E)	7.0	6.7	6.8
J207	6.3	7.3	6.8
PALMER	6.3	7.3	6.8
REPELL	6.3	7.3	6.8
YORKTOWN II	6.3	7.3	6.8
DELRAY	5.7	7.7	6.7
MANHATTAN II	6.7	6.7	6.7
RONJA	6.7	6.7	6.7
ALLAIRE	7.0	6.3	6.7
CALIENTE	6.3	7.0	6.7

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	ID2	SD1	MEAN
DEL 946	6.0	7.3	6.7
ISI-K2 (DILLON)	6.3	7.0	6.7
J208	6.3	7.0	6.7
PST-2PM (SATURN)	6.3	7.0	6.7
RUNAWAY	6.0	7.3	6.7
246	6.3	6.7	6.5
DERBY	6.0	7.0	6.5
MOM LP 763 (TORONTO)	5.3	7.7	6.5
PENNANT	6.7	6.3	6.5
RODEO	6.3	6.7	6.5
REGAL	6.5	6.3	6.4
ACROBAT	5.7	7.0	6.3
CITATION II	5.7	7.0	6.3
REGENCY	5.7	7.0	6.3
VINTAGE-2DF	6.0	6.7	6.3
SHERIFF	5.7	6.7	6.2
PAVO	5.3	7.0	6.2
SR 4031 (NOVA)	6.3	6.0	6.2
COWBOY	6.3	5.7	6.0
LINN	4.0	4.3	4.2
LSD VALUE	1.1	0.8	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 8. PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/

NAME	MO1	MEAN
PST-250 (COMPETITOR)	88.3	88.3
PST-M2E (MAN. II W/E)	85.0	85.0
PICK 715 (EDGE)	83.3	83.3
PRELUDE	83.3	83.3
RANGER	83.3	83.3
DIPLOMAT	81.7	81.7
ISI-K2 (DILLON)	81.7	81.7
PICK 600 (FIESTA II)	81.7	81.7
VINTAGE-2DF	80.0	80.0
SR 4000	79.7	79.7
PICK 233 (DASHER II)	78.3	78.3
SR 4100	78.3	78.3
ACROBAT	78.0	78.0
PICK 300 (BLAZER II)	78.0	78.0
MOM LP 763 (TORONTO)	76.7	76.7
OVATION	76.7	76.7
PENNANT	76.7	76.7
PST-2H7 (DIMENSION)	76.7	76.7
246	75.0	75.0
DELRAY	75.0	75.0
DERBY	75.0	75.0
GATOR	75.0	75.0
GOALIE	75.0	75.0
KWS-AL-2 (AQUARIUS)	75.0	75.0
PST-2PM (SATURN)	75.0	75.0
BAR LP 410 (BARRAGE)	73.3	73.3
BIRDIE II	73.3	73.3
ISI-851 (LINDSAY)	73.3	73.3
PATRIOT	73.3	73.3
PENNFINE	73.3	73.3
PST-259 (COMMANDER)	73.3	73.3
PSU-333	73.3	73.3
REPELL	73.3	73.3
COWBOY	71.7	71.7
PALMER	71.7	71.7
PICK 647 (RIVIERA)	71.7	71.7
RODEO	71.7	71.7
RUNAWAY	71.7	71.7
SR 4031 (NOVA)	71.7	71.7
ALLAIRE	71.3	71.3
CALIENTE	70.0	70.0
J207	70.0	70.0
PST-2HH (CHARGER)	70.0	70.0
RIVAL	70.0	70.0
BELIE	68.3	68.3

PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	MO1	MEAN
DEL 946	68.3	68.3
RONJA	68.3	68.3
MANHATTAN	66.7	66.7
MANHATTAN II	66.7	66.7
OMEGA II	66.7	66.7
PAVO	66.7	66.7
PSU-222	66.7	66.7
TARA	66.7	66.7
BAR LP 454 (BARCREDO)	63.3	63.3
NK 80389	63.3	63.3
SHERIFF	63.3	63.3
CITATION II	61.7	61.7
REGAL	61.7	61.7
YORKTOWN II	61.7	61.7
BARRY	60.0	60.0
PST-2DD	60.0	60.0
J208	58.3	58.3
REGENCY	56.7	56.7
BRENDA	55.0	55.0
LINN	18.3	18.3
LSD VALUE	20.5	20.5

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

TABLE 9. PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/

NAME	ID2	MO1	MEAN
CALIENTE	99.0	58.3	78.7
OMEGA II	99.0	56.7	77.8
PICK 600 (FIESTA II)	99.0	56.7	77.8
OVATION	98.7	56.7	77.7
ACROBAT	98.3	55.0	76.7
MANHATTAN II	99.0	53.3	76.2
SR 4100	99.0	53.3	76.2
PICK 715 (EDGE)	96.3	55.0	75.7
PALMER	98.7	51.7	75.2
DIPLOMAT	99.0	50.0	74.5
GOALIE	99.0	50.0	74.5
PATRIOT	99.0	50.0	74.5
PENNANT	99.0	50.0	74.5
PSU-333	99.0	50.0	74.5
RANGER	99.0	50.0	74.5
ISI-851 (LINDSAY)	98.7	50.0	74.3
MOM LP 763 (TORONTO)	99.0	48.3	73.7
PICK 300 (BLAZER II)	99.0	48.3	73.7
RODEO	99.0	48.3	73.7
SR 4000	98.7	48.3	73.5
SHERIFF	98.3	48.3	73.3
ISI-K2 (DILLON)	99.0	46.7	72.8
PST-2H7 (DIMENSION)	99.0	46.7	72.8
REPELL	99.0	46.7	72.8
PRELUDE	98.7	46.7	72.7
PST-2PM (SATURN)	98.7	46.7	72.7
PAVO	99.0	45.0	72.0
PENNFINE	99.0	45.0	72.0
PICK 233 (DASHER II)	99.0	45.0	72.0
246	98.7	45.0	71.8
BRENDA	99.0	43.3	71.2
MANHATTAN	99.0	43.3	71.2
NK 80389	99.0	43.3	71.2
PST-M2E (MAN. II W/E)	99.0	43.3	71.2
REGENCY	99.0	43.3	71.2
RONJA	99.0	43.3	71.2
YORKTOWN II	98.7	43.3	71.0
REGAL	98.5	43.3	70.9
PICK 647 (RIVIERA)	97.7	43.3	70.5
BIRDIE II	99.0	41.7	70.3
PST-259 (COMMANDER)	98.7	41.7	70.2
BAR LP 410 (BARRAGE)	97.7	41.7	69.7
GATOR	99.0	40.0	69.5
PST-2HH (CHARGER)	95.7	43.3	69.5
DELRAY	98.7	40.0	69.3

PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	ID2	MO1	MEAN
DEL 946	98.5	40.0	69.3
CITATION II	96.0	41.7	68.8
ALLAIRE	99.0	38.3	68.7
BARRY	99.0	38.3	68.7
DERBY	99.0	38.3	68.7
SR 4031 (NOVA)	96.0	40.0	68.0
BELLE	99.0	36.7	67.8
RIVAL	99.0	36.7	67.8
PST-250 (COMPETITOR)	99.0	35.0	67.0
PSU-222	99.0	35.0	67.0
RUNAWAY	99.0	35.0	67.0
BAR LP 454 (BARCREDO)	99.0	33.3	66.2
TARA	99.0	33.3	66.2
VINTAGE-2DF	98.3	31.7	65.0
COWBOY	99.0	30.0	64.5
J208	99.0	30.0	64.5
KWS-AL-2 (AQUARIUS)	98.7	30.0	64.3
J207	97.7	28.3	63.0
PST-2DD	99.0	18.3	58.7
LINN	99.0	16.7	57.8
LSD VALUE	2.2	19.1	9.8

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

TABLE 10. LEAFSPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE 1/

NAME	OH2	MEAN
BAR LP 410 (BARRAGE)	7.7	7.7
OMEGA II	7.0	7.0
PST-259 (COMMANDER)	7.0	7.0
PST-2PM (SATURN)	7.0	7.0
PST-M2E (MAN. II W/E)	7.0	7.0
MANHATTAN II	6.7	6.7
PICK 233 (DASHER II)	6.3	6.3
PST-2DD	6.3	6.3
PST-2H7 (DIMENSION)	6.3	6.3
RANGER	6.3	6.3
RODEO	6.3	6.3
RUNAWAY	6.3	6.3
ALLAIRE	6.0	6.0
DELRAY	6.0	6.0
DERBY	6.0	6.0
ISI-K2 (DILLON)	6.0	6.0
PENNANT	6.0	6.0
PICK 300 (BLAZER II)	6.0	6.0
PICK 715 (EDGE)	6.0	6.0
PRELUDE	6.0	6.0
PST-2HH (CHARGER)	6.0	6.0
SR 4100	6.0	6.0
YORKTOWN II	6.0	6.0
ISI-851 (LINDSAY)	5.7	5.7
MANHATTAN	5.7	5.7
MOM LP 763 (TORONTO)	5.7	5.7
NK 80389	5.7	5.7
PICK 600 (FIESTA II)	5.7	5.7
PST-250 (COMPETITOR)	5.7	5.7
PSU-222	5.7	5.7
PSU-333	5.7	5.7
SR 4000	5.7	5.7
TARA	5.7	5.7
246	5.3	5.3
ACROBAT	5.3	5.3
BAR LP 454 (BARCREDO)	5.3	5.3
BARRY	5.3	5.3
CALIENTE	5.3	5.3
CITATION II	5.3	5.3
GATOR	5.3	5.3
GOALIE	5.3	5.3
KWS-AL-2 (AQUARIUS)	5.3	5.3
PALMER	5.3	5.3
PATRIOT	5.3	5.3
PICK 647 (RIVIERA)	5.3	5.3

LEAFSPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE

NAME	OH2	MEAN
REGAL	5.3	5.3
REPELL	5.3	5.3
RIVAL	5.3	5.3
BELLE	5.0	5.0
BIRDIE II	5.0	5.0
DIPLOMAT	5.0	5.0
J207	5.0	5.0
J208	5.0	5.0
OVATION	5.0	5.0
PAVO	5.0	5.0
SHERIFF	5.0	5.0
SR 4031 (NOVA)	5.0	5.0
VINTAGE-2DF	5.0	5.0
BRENDA	4.7	4.7
DEL 946	4.7	4.7
REGENCY	4.7	4.7
PENNFINE	4.3	4.3
RONJA	4.3	4.3
COWBOY	3.7	3.7
LINN	3.7	3.7
LSD VALUE	1.7	1.7

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

TABLE 11. RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 1/			
NAME	ID2	MD1	MEAN
PRELUDE	9.0	8.7	8.8
PST-M2E (MAN. II W/E)	8.7	9.0	8.8
REGAL	9.0	8.7	8.8
RUNAWAY	9.0	8.7	8.8
TARA	9.0	8.7	8.8
246	8.3	9.0	8.7
ALLAIRE	9.0	8.3	8.7
BELLE	9.0	8.3	8.7
BIRDIE II	9.0	8.3	8.7
BRENDA	9.0	8.3	8.7
DERBY	9.0	8.3	8.7
DIPLOMAT	9.0	8.3	8.7
GATOR	9.0	8.3	8.7
PATRIOT	9.0	8.3	8.7
PST-2H7 (DIMENSION)	9.0	8.3	8.7
PSU-222	9.0	8.3	8.7
SR 4100	9.0	8.3	8.7
CALIENTE	8.7	8.7	8.7
J208	8.7	8.7	8.7
MOM LP 763 (TORONTO)	8.7	8.7	8.7
DEL 946	8.5	8.7	8.6
BARRY	8.7	8.3	8.5
DELRAY	8.3	8.7	8.5
ISI-K2 (DILLON)	8.0	9.0	8.5
LINN	8.7	8.3	8.5
MANHATTAN	8.7	8.3	8.5
NK 80389	8.7	8.3	8.5
PAVO	8.7	8.3	8.5
PENNANT	8.3	8.7	8.5
PENNFINE	8.7	8.3	8.5
PICK 233 (DASHER II)	9.0	8.0	8.5
PICK 300 (BLAZER II)	8.7	8.3	8.5
PSU-333	8.3	8.7	8.5
RANGER	8.7	8.3	8.5
RODEO	8.7	8.3	8.5
VINTAGE-2DF	8.0	9.0	8.5
ACROBAT	8.3	8.3	8.3
COWBOY	8.3	8.3	8.3
PICK 600 (FIESTA II)	8.3	8.3	8.3
PST-259 (COMMANDER)	8.3	8.3	8.3
PST-2PM (SATURN)	8.3	8.3	8.3
REPELL	8.3	8.3	8.3
OMEGA II	8.0	8.7	8.3
PST-250 (COMPETITOR)	8.7	8.0	8.3
GOALIE	8.0	8.3	8.2

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE

NAME	ID2	MD1	MEAN
PALMER	8.0	8.3	8.2
MANHATTAN II	7.7	8.7	8.2
REGENCY	8.7	7.7	8.2
RONJA	7.3	9.0	8.2
BAR LP 454 (BARCREDO)	7.7	8.3	8.0
ISI-851 (LINDSAY)	7.7	8.3	8.0
KWS-AL-2 (AQUARIUS)	7.7	8.3	8.0
RIVAL	8.0	8.0	8.0
SHERIFF	7.7	8.3	8.0
YORKTOWN II	7.7	8.3	8.0
BAR LP 410 (BARRAGE)	7.7	8.0	7.8
SR 4000	7.7	8.0	7.8
OVATION	7.0	8.7	7.8
SR 4031 (NOVA)	7.0	8.7	7.8
CITATION II	7.0	8.3	7.7
PICK 715 (EDGE)	6.7	8.7	7.7
PST-2DD	7.3	8.0	7.7
PICK 647 (RIVIERA)	7.0	8.0	7.5
PST-2HH (CHARGER)	6.7	8.3	7.5
J207	6.7	8.0	7.3
LSD VALUE	2.4	0.9	1.2

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 12. WHITE GRUB RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

WHITE GRUB RATINGS 1-9; 9=NO DAMAGE 1/

NAME	MD1	MEAN
PST-2HH (CHARGER)	8.3	8.3
PSU-333	7.7	7.7
CITATION II	7.3	7.3
COWBOY	7.3	7.3
GOALIE	7.3	7.3
OMEGA II	7.3	7.3
TARA	7.3	7.3
BRENDA	7.0	7.0
NK 80389	7.0	7.0
246	6.7	6.7
GATOR	6.7	6.7
ALLAIRE	6.3	6.3
BELIE	6.3	6.3
PICK 715 (EDGE)	6.3	6.3
PST-M2E (MAN. II W/E)	6.3	6.3
RONJA	6.3	6.3
BARRY	6.0	6.0
DERBY	6.0	6.0
DIPLOMAT	6.0	6.0
PATRIOT	6.0	6.0
REGAL	6.0	6.0
REGENCY	6.0	6.0
SR 4100	6.0	6.0
ACROBAT	5.7	5.7
DELRAY	5.7	5.7
MOM LP 763 (TORONTO)	5.7	5.7
PST-250 (COMPETITOR)	5.7	5.7
PST-259 (COMMANDER)	5.7	5.7
SHERIFF	5.7	5.7
YORKTOWN II	5.7	5.7
DEL 946	5.3	5.3
J208	5.3	5.3
OVATION	5.3	5.3
PALMER	5.3	5.3
PICK 647 (RIVIERA)	5.3	5.3
PSU-222	5.3	5.3
RANGER	5.3	5.3
RUNAWAY	5.3	5.3
SR 4031 (NOVA)	5.3	5.3
ISI-851 (LINDSAY)	5.0	5.0
PICK 233 (DASHER II)	5.0	5.0
SR 4000	5.0	5.0
BAR LP 454 (BARCREDO)	4.7	4.7
BIRDIE II	4.7	4.7
PICK 300 (BLAZER II)	4.7	4.7

WHITE GRUB RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

WHITE GRUB RATINGS 1-9; 9=NO DAMAGE

NAME	MD1	MEAN
PRELUDE	4.7	4.7
PST-2DD	4.7	4.7
RIVAL	4.7	4.7
BAR LP 410 (BARRAGE)	4.3	4.3
MANHATTAN	4.3	4.3
PAVO	4.3	4.3
PST-2PM (SATURN)	4.3	4.3
VINTAGE-2DF	4.3	4.3
ISI-K2 (DILLON)	4.0	4.0
KWS-AL-2 (AQUARIUS)	4.0	4.0
LINN	4.0	4.0
MANHATTAN II	4.0	4.0
RODEO	4.0	4.0
PST-2H7 (DIMENSION)	3.7	3.7
REPELL	3.7	3.7
CALIENTE	3.3	3.3
PENNFINE	3.3	3.3
J207	3.0	3.0
PENNANT	3.0	3.0
PICK 600 (FIESTA II)	2.7	2.7
LSD VALUE	3.8	3.8

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

TABLE 13. MOWING RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

MOWING RATINGS 1-9; 9=BEST 1/		
NAME	ID2	MEAN
PST-2PM (SATURN)	7.0	7.0
KWS-AL-2 (AQUARIUS)	6.7	6.7
NK 80389	6.7	6.7
OMEGA II	6.7	6.7
PATRIOT	6.7	6.7
PENNANT	6.7	6.7
SR 4000	6.7	6.7
DEL 946	6.5	6.5
MANHATTAN II	6.3	6.3
PICK 233 (DASHER II)	6.3	6.3
PST-2DD	6.3	6.3
PST-2H7 (DIMENSION)	6.3	6.3
PST-2HH (CHARGER)	6.3	6.3
PST-M2E (MAN. II W/E)	6.3	6.3
RODEO	6.3	6.3
BAR LP 454 (BARCREDO)	6.0	6.0
CITATION II	6.0	6.0
ISI-851 (LINDSAY)	6.0	6.0
OVATION	6.0	6.0
PALMER	6.0	6.0
PICK 600 (FIESTA II)	6.0	6.0
PICK 647 (RIVIERA)	6.0	6.0
PICK 715 (EDGE)	6.0	6.0
PSU-222	6.0	6.0
PSU-333	6.0	6.0
REPELL	6.0	6.0
TARA	6.0	6.0
246	5.7	5.7
ALLAIRE	5.7	5.7
CALIENTE	5.7	5.7
DELRAY	5.7	5.7
GATOR	5.7	5.7
MOM LP 763 (TORONTO)	5.7	5.7
PICK 300 (BLAZER II)	5.7	5.7
PST-250 (COMPETITOR)	5.7	5.7
PST-259 (COMMANDER)	5.7	5.7
RANGER	5.7	5.7
RIVAL	5.7	5.7
SHERIFF	5.7	5.7
YORKTOWN II	5.7	5.7
BRENDA	5.5	5.5
REGAL	5.5	5.5
SR 4100	5.5	5.5
BARRY	5.3	5.3
COWBOY	5.3	5.3

MOWING RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1990 DATA

MOWING RATINGS 1-9; 9=BEST

NAME	ID2	MEAN
ISI-K2 (DILLON)	5.3	5.3
PRELUDE	5.3	5.3
RONJA	5.3	5.3
ACROBAT	5.0	5.0
BELLE	5.0	5.0
DERBY	5.0	5.0
DIPLOMAT	5.0	5.0
GOALIE	5.0	5.0
J207	5.0	5.0
J208	5.0	5.0
PENNFINE	5.0	5.0
REGENCY	5.0	5.0
SR 4031 (NOVA)	5.0	5.0
BIRDIE II	4.7	4.7
MANHATTAN	4.7	4.7
PAVO	4.7	4.7
VINTAGE-2DF	4.3	4.3
BAR LP 410 (BARRAGE)	4.0	4.0
RUNAWAY	3.5	3.5
LINN	1.7	1.7
LSD VALUE	1.5	1.5

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