

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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LOCATIONS SUBMITTING DATA FOR 1987-90

<u>State</u>	<u>Location</u>	<u>Code</u>
British Columbia	Agassiz	BC1
District of Columbia	Washington Monument Grounds	DC1
Idaho	Post Falls	ID2
Illinois	Urbana	IL1
Illinois	Carbondale	IL2
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
	(mechanical wear applied Spring & Fall, 1990)	
Nebraska	Lincoln	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Mexico	Los Lunas	NM1
New York	Ithaca	NY1
New York	Riverhead, L.I.	NY2
Ohio	Marysville	OH2
Oklahoma	Stillwater	OK1
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Pennsylvania	University Park (low mowing)	PA1
Pennsylvania	University Park (high mowing)	PA2
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			
			37	PSU-222	Joe Duich - Penn State
			38	PSU-333	Joe Duich - Penn State
			39	Mom Lp 763 (Toronto)	Van der Have - Oregon, Inc.
			40	Sheriff	Van der Have - Oregon, Inc.
1	Barry	Barenbrug Holland			
2	BAR Lp 454 (Barcredo)	Barenbrug Holland			
3	Tara	Hubbard Seed & Supply	41	Birdie II	Turf-Seed, Inc.
4	BAR Lp 410 (Barrage)	Barenbrug Holland	42	Citation II	Turf-Seed, Inc.
5	Cowboy	Loft's Seed, Inc.	43	Regency	LESCO, Inc.
			44	Manhattan II	Turf Merchants & Turf-Seed
6	Yorktown II	Loft's Seed, Inc.	45	PST-2PM (Saturn)	Zajac Performance Seeds
7	Prelude	Loft's Seed, Inc.			
8	Palmer	Loft's Seed, Inc.	46	PST-2DD	Pure-Seed Testing, Inc.
9	Diplomat	Loft's Seed, Inc.	47	PST-2H7 (Dimension)	Van der Have - Oregon, Inc.
10	Pavo (WW E 14)	E. F. Burlingham & Sons	48	PST-250 (Competitor)	E. F. Burlingham & Sons
			49	Vintage-2DF	LESCO, Inc.
11	Ronja (WW E 31)	E. F. Burlingham & Sons	50	PST-259 (Commander)	LESCO, Inc.
12	Caliente	NPI Seed, Inc.			
13	KWS-Al-2 (Aquarius)	Fred Ledebauer-KWS Einbeck	51	PST-M2E (Manhattan II w/endophyte)	Manhattan Rye Growers Assoc.
14	Delray	NK Lawn & Garden			
15	Goalie	NK Lawn & Garden	52	246	Turf-Seed, Inc.
			53	Omega II	Turf-Seed, Inc.
16	Acrobat (HE 177)	Van der Have - Oregon, Inc.	54	PST-2HH (Charger)	Pure-Seed Testing, Inc.
17	Rival (HE 178)	Van der Have - Oregon, Inc.			
18	Brenda	Van der Have - Oregon, Inc.	55	ISI-851 (Lindsay)	International Seeds, Inc.
19	Derby	International Seeds, Inc.	56	NK 80389	NK Lawn & Garden
20	Regal	International Seeds, Inc.	57	Manhattan	-
			58	Repell	Loft's Seed, Inc.
21	Gator	International Seeds, Inc.	59	DEL 946	NK Lawn & Garden
22	Patriot	Turf Merchants, Inc.			
23	Rodeo	Turf Merchants, Inc.	60	Belle	E. F. Burlingham & Sons
24	Allaire	Jonathan Green & Sons	61	Pennant	E. F. Burlingham & Sons
25	Pick 300 (Blazer II)	Pickseed West, Inc.	62	J207	Jacklin Seed Co.
			63	J208	Jacklin Seed Co.
26	Pick 715 (Edge)	Pickseed West, Inc.	64	Linn	-
27	Ovation	O. M. Scott & Sons			
28	SR 4000	Seed Research, Inc.	65	Runaway	Van der Have - Oregon, Inc.
29	SR 4031 (Nova)	Seed Research, Inc.			
30	SR 4100	Seed Research, Inc.			
31	Pick 233 (Dasher II)	Pickseed West, Inc.			
32	Pick 647 (Riviera)	Roberts Seed Co.			
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.

1987-90 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
BC1	LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
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
IL1	SILT LOAM AND SILT	-	-	-	3.1-4.0	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
KS1	SILTY CLAY LOAM	7.1-7.5	151-270	376-500	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
KS2	SANDY LOAM	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	ONLY DURING SEVERE STRESS
MA1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MD1	SANDY LOAM	6.1-6.5	151-270	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
MI1	SANDY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MO1	SANDY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NE1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	151-270	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NJ2	SANDY LOAM	5.6-6.0	61-150	241-375	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
NM1	SANDY CLAY LOAM	7.6-8.5	-	-	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NY1	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NY2	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OH2	SILTY CLAY AND CLAY	-	-	-	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
OK1	-	-	-	-	-	-	-	-
OR1	SILT LOAM AND SILT	4.6-5.5	151-270	241-375	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
OR2	SANDY CLAY LOAM	5.6-6.0	151-270	376-500	7.1-8.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	61-150	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
PA2	SILT LOAM AND SILT	6.6-7.0	61-150	241-375	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
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	SILT LOAM AND SILT	5.6-6.0	61-150	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
VA1	LOAM	6.1-6.5	151-270	151-240	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
VA7	SANDY LOAM	7.1-7.5	61-150	241-375	2.1-3.0	FULL SUN	2.1-2.5	NO IRRIGATION
WA3	SANDY LOAM	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1987-90

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
BC1		X	X	X	X	X	X	X	X	X	X	
DC1			X	X	X	X	X	X	X	X	X	
ID2		X	X	X	X	X	X	X	X	X	X	
IL1			X		X	X	X	X	X	X		
IL2			X	X	X	X	X	X	X	X	X	
IN1			X	X	X	X	X	X	X	X	X	
KS1				X	X	X	X	X	X	X	X	
KS2				X	X		X	X	X	X		
KY1			X	X	X	X	X	X	X	X		
MA1				X	X	X	X	X	X	X	X	
MD1				X	X	X	X	X	X	X	X	
MI1				X	X	X	X	X	X	X	X	
MO1		X	X	X	X	X	X	X	X	X	X	
NE1				X	X	X	X	X	X			
NJ1			X	X	X	X	X	X	X	X	X	
NJ2				X	X	X	X	X	X	X	X	
NM1	X	X	X	X	X	X	X	X	X	X	X	X
NY1				X	X	X	X	X	X	X		
NY2				X	X	X	X					
OH2					X			X	X	X		
OK1			X	X	X	X	X					
OR1	X	X	X	X	X	X	X	X	X	X	X	X
OR2	X	X	X	X	X	X	X	X	X	X	X	X
PA1				X	X		X	X	X	X		
PA2				X	X		X	X		X		
RI1				X	X	X	X	X	X	X	X	
SD1					X	X	X	X	X	X		
UB1				X	X	X	X	X	X	X	X	
VA1			X	X	X	X	X	X	X	X	X	
VA7			X	X	X	X	X	X	X	X		X
WA3		X	X		X	X			X			

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1987-90

LOCATION	GENETIC COLOR RATING	SPRING GREENUP RATING	LEAF TEXTURE RATING	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR
BC1	X										
DC1											
ID2	X		X	X		X	X		X	X	
IL1											
IL2											
IN1		X		X	X	X			X		
KS1											
KS2				X							X
KY1											
MA1										X	
MD1	X										
MT1											
MO1							X	X	X	X	
NE1	X							X			
NJ1	X										
NJ2											
NM1	X		X	X	X	X	X	X	X	X	X
NY1											
NY2											
OH2	X	X									
OK1											
OR1											
OR2											
PA1											
PA2											
RI1											
SD1	X	X	X		X	X	X				
UB1										X	
VA1										X	
VA7											
WA3	X			X							

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1987-90

LOCATION	FUSARIUM PATCH	MELTING OUT SPRING	LEAF SPOT	DOLLAR SPOT	RED THREAD	BROWN PATCH	CROWN RUST	CHINCH BUGS	WHITE GRUBS	MOWING RATINGS
BC1					X					X
DC1										
ID2	X				X					X
IL1				X	X					
IL2										
IN1				X		X			X	
KS1										
KS2										
KY1										
MA1										
MD1					X	X			X	
MI1					X					
MO1										
NE1										
NJ1			X			X				
NJ2						X				
NM1		X								
NY1										
NY2										
OH2	X		X		X					
OK1										
OR1							X			
OR2										
PA1				X	X					
PA2				X	X					
RI1										
SD1										
UB1					X			X		
VA1					X	X				
VA7										
WA3										

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT THIRTY-ONE LOCATIONS IN THE UNITED STATES AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																
NAME	BC1	DC1	ID2	IL1	IL2	IN1	KS1	KS2	KY1	MA1	MD1	MI1	MO1	NE1	NJ1	NJ2
* PST-2PM (SATURN)	5.6	4.8	6.7	6.6	7.3	6.7	7.0	7.6	6.3	5.0	6.0	6.2	6.8	6.3	6.1	6.5
* SR 4000	5.4	3.5	6.4	6.2	7.1	6.5	6.9	7.0	6.1	5.0	6.4	6.0	6.6	6.0	6.8	6.6
* SR 4100	5.4	3.7	6.4	6.4	7.7	6.6	7.0	7.1	6.1	5.3	6.3	5.7	6.9	5.7	6.5	6.0
* PST-2H7 (DIMENSION)	5.5	3.8	6.7	6.4	6.7	6.4	7.0	7.4	6.1	5.3	5.5	6.2	6.4	6.0	6.2	6.8
* PST-M2E (MAN. II W/E)	5.7	4.6	6.1	6.2	6.8	6.8	7.1	7.4	5.9	4.8	5.9	5.7	6.6	5.6	6.2	6.4
* PENNNANT	5.8	4.5	6.4	6.3	7.4	6.5	6.6	7.2	6.0	5.1	6.2	5.7	6.6	5.9	6.0	6.0
* PST-259 (COMMANDER)	5.5	5.0	6.0	6.3	7.2	6.6	6.8	7.1	6.3	5.0	5.8	5.4	6.4	5.9	5.8	6.4
* PICK 600 (FIESTA II)	5.5	3.8	6.5	6.4	6.8	6.7	7.0	6.9	6.0	5.3	5.5	5.4	6.5	6.2	5.9	6.3
* REPELL	5.9	5.4	6.0	5.9	7.1	6.6	6.8	6.7	6.3	5.0	6.0	5.7	6.2	5.9	5.6	5.8
* PICK 647 (RIVIERA)	5.9	3.8	6.3	6.4	7.4	6.4	6.8	7.3	6.2	5.0	5.6	5.8	6.6	5.9	6.2	6.2
* PALMER	6.0	6.0	6.4	6.5	6.9	6.6	6.7	6.9	5.8	5.0	6.1	5.6	6.2	5.7	5.6	5.8
* PICK 300 (BLAZER II)	5.6	5.1	6.8	6.2	6.8	6.6	7.2	6.5	6.0	5.3	5.5	5.8	6.5	6.1	6.1	6.5
* OMEGA II	5.7	2.6	6.6	6.2	6.3	6.4	6.9	7.2	6.2	4.9	5.7	5.5	6.4	5.9	5.7	6.0
* PST-2HH (CHARGER)	5.4	3.5	6.6	6.2	7.4	6.6	6.9	7.5	5.8	4.9	6.2	5.9	6.4	5.8	5.4	6.4
* PST-250 (COMPETITOR)	5.4	4.6	5.9	5.8	6.7	6.4	6.8	7.1	5.8	5.3	5.4	5.4	6.4	5.9	5.9	6.3
* MANHATTAN II	5.8	4.3	6.3	6.3	6.6	6.4	6.7	7.3	5.6	4.8	5.8	5.8	5.9	5.8	5.6	6.1
* PICK 233 (DASHER II)	5.5	2.9	5.9	5.8	6.5	6.5	7.0	7.4	6.1	4.9	5.8	5.6	6.5	5.8	6.2	6.1
* PICK 715 (EDGE)	5.5	3.3	6.0	6.2	6.2	6.5	6.8	7.0	6.0	5.0	6.3	5.3	6.7	5.7	6.4	6.1
* PST-2DD	5.5	3.1	7.1	5.6	6.9	6.4	6.7	6.2	5.8	4.9	5.1	5.4	5.5	6.1	5.5	6.4
* CITATION II	5.8	2.2	5.8	6.2	6.9	6.4	6.8	7.3	6.1	5.0	6.3	5.6	6.4	5.5	5.5	6.1
* PRELUDE	5.7	5.1	6.1	6.0	6.9	6.4	6.8	7.3	5.6	5.1	6.1	5.4	6.1	5.5	5.4	5.7
* ALLAIRE	5.6	4.9	6.1	6.0	6.3	6.5	7.0	6.5	5.7	4.9	5.9	5.8	6.1	6.0	5.7	6.4
* GATOR	5.6	4.9	6.1	6.1	6.2	6.4	6.8	6.7	5.9	4.9	5.6	5.4	6.1	5.9	5.4	5.9
* ISI-851 (LINDSAY)	5.7	4.1	6.1	5.9	6.6	6.3	6.8	6.8	5.7	5.0	6.0	5.7	6.0	5.9	5.3	5.8
* KWS-AL-2 (AQUARIUS)	5.4	2.8	6.9	5.5	6.1	6.2	7.2	6.7	5.3	5.0	5.1	5.5	6.0	5.8	6.3	6.5
* TARA	5.8	3.6	6.6	6.2	6.7	6.4	6.9	6.6	5.9	5.0	5.8	5.7	5.8	5.7	5.4	6.0
* GOALIE	5.6	4.5	6.3	5.9	7.6	6.4	6.7	7.0	5.7	5.1	6.2	5.4	6.3	5.3	5.4	5.3
* PSU-333	5.6	4.7	5.8	5.8	7.2	6.5	6.7	6.9	5.7	5.2	5.8	5.5	5.9	5.8	5.0	5.5
* PATRIOT	5.6	4.2	5.8	5.8	7.0	6.3	6.6	7.4	5.6	4.9	5.2	5.1	6.4	5.9	5.2	5.4
* RODEO	6.0	4.5	6.5	5.8	6.1	6.4	6.8	6.1	5.5	5.1	5.1	5.5	6.0	5.9	5.7	5.7
* BIRDIE II	5.4	3.9	6.0	6.1	7.0	6.3	6.6	7.0	5.8	4.9	6.0	5.3	6.3	5.7	4.7	5.2
* BAR LP 410 (BARRAGE)	5.7	4.6	5.4	5.8	6.8	6.3	6.9	6.8	5.8	4.9	5.6	5.3	6.5	5.4	4.6	5.1
* CALIENTE	5.3	5.1	5.8	6.0	7.3	6.2	6.7	7.2	6.0	5.1	6.0	5.0	6.2	6.1	5.1	5.0
* RUNAWAY	5.7	4.8	5.8	5.8	6.4	6.5	6.5	6.8	5.7	4.9	5.7	5.6	5.9	5.3	5.0	5.4
* PSU-222	5.2	4.4	5.9	5.6	6.6	6.4	6.7	6.6	5.7	5.0	5.8	5.4	5.7	6.0	5.1	4.8
* DERBY	5.7	3.5	6.0	5.8	7.1	6.5	6.6	6.7	5.5	5.0	5.6	5.3	6.1	5.6	4.8	5.1
* BELLE	5.7	4.1	6.1	6.0	6.5	6.3	6.7	7.1	5.7	5.1	5.5	5.5	6.0	5.7	5.6	5.5
* 246	5.1	3.8	6.0	5.7	6.1	6.3	6.6	7.0	5.4	5.1	5.4	5.2	6.2	5.6	4.8	5.4
* RANGER	5.5	4.5	5.9	5.8	6.5	6.4	7.0	6.5	5.8	5.1	5.2	5.2	6.1	5.6	5.0	5.0
* SR 4031 (NOVA)	5.5	2.1	5.7	5.6	7.0	6.5	6.7	6.7	5.8	5.0	5.9	5.3	5.9	5.5	4.5	5.4
* YORKTOWN II	5.9	4.7	5.8	5.9	6.4	6.3	6.8	6.3	5.5	4.9	4.8	5.3	5.7	5.4	4.1	4.8
* REGAL	5.3	4.1	5.8	4.7	7.0	6.2	6.4	7.0	5.8	4.9	5.4	5.4	6.2	5.4	5.0	5.3
* RIVAL	5.5	4.2	6.1	6.0	6.7	6.5	6.5	6.6	5.3	5.1	5.6	5.3	5.9	5.7	4.2	4.2
* PENNFINE	5.5	3.6	5.6	5.7	6.8	6.3	6.3	6.8	5.6	5.1	5.8	5.1	5.8	5.7	4.4	4.5
* MOM LP 763 (TORONTO)	5.6	4.8	5.6	5.9	6.1	6.3	6.4	6.3	5.7	5.1	5.9	5.1	5.9	5.4	4.0	4.3

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT THIRTY-ONE LOCATIONS IN THE UNITED STATES AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																
NAME	BC1	DC1	ID2	IL1	IL2	IN1	KS1	KS2	KY1	MA1	MD1	MI1	MO1	NE1	NJ1	NJ2
ACROBAT	5.5	5.7	5.6	5.8	6.1	6.3	6.6	6.3	5.6	5.1	5.8	5.1	6.5	5.7	4.4	4.7
* BAR LP 454 (BARCREDO)	5.4	3.0	6.2	5.9	5.9	6.4	6.5	6.2	5.5	4.7	4.9	5.0	5.6	5.9	4.1	4.5
* BARRY	5.7	3.3	5.6	5.8	6.2	6.1	6.5	6.6	5.2	4.8	4.9	5.3	5.5	5.6	4.7	5.0
* DIPLOMAT	5.4	5.2	6.0	5.8	6.3	6.2	6.6	6.3	5.3	5.0	5.0	5.0	6.1	5.6	3.8	4.7
NK 80389	5.5	3.9	5.9	5.4	6.0	6.3	6.6	6.4	5.7	4.9	4.7	5.2	5.4	5.7	4.4	4.6
DEL 946	5.5	3.3	5.6	5.5	7.0	6.1	6.6	6.5	6.0	5.2	6.3	5.1	5.8	5.7	4.2	4.3
* OVATION	5.4	3.7	5.7	6.4	5.5	6.4	6.5	6.2	5.4	4.8	5.6	5.2	6.0	5.2	4.1	4.2
RONJA	5.3	4.1	6.4	5.3	6.6	6.2	6.6	6.0	5.2	5.1	5.3	5.1	5.7	5.4	4.2	4.3
* BRENDA	5.3	3.9	6.0	6.2	6.0	6.4	6.5	6.9	5.4	5.1	5.2	5.2	5.6	5.4	4.3	4.8
* VINTAGE-2DF	5.5	3.9	5.1	5.3	6.6	6.2	6.5	6.6	5.6	4.8	5.5	5.2	6.0	6.0	3.8	3.8
* ISI-K2 (DILLON)	5.7	3.0	5.3	5.8	6.3	6.1	6.8	6.3	5.6	4.9	5.5	5.1	5.8	5.7	4.0	4.4
* REGENCY	5.8	3.7	5.7	5.8	5.9	6.3	6.3	6.7	5.1	4.8	5.3	5.1	5.6	5.7	3.9	3.9
* SHERIFF	5.6	4.8	5.5	5.3	5.9	6.0	6.3	6.3	5.2	4.9	5.6	4.8	6.0	5.4	4.1	4.9
* DELRAY	5.3	2.6	5.4	4.7	6.5	6.2	6.5	6.9	5.4	5.1	5.7	4.8	5.9	5.3	4.3	4.7
* MANHATTAN	5.3	5.0	5.8	5.5	6.1	6.1	6.1	5.8	5.4	4.8	5.4	5.3	5.5	5.6	3.5	4.2
PAVO	5.2	4.4	5.8	5.3	5.8	6.1	6.5	6.5	5.4	4.7	4.6	4.8	5.3	5.6	3.4	3.7
* COWBOY	5.7	2.3	5.9	5.5	6.5	6.1	6.4	6.3	5.2	4.8	5.3	5.2	5.7	5.3	4.5	4.4
J207	5.4	3.3	5.3	5.7	6.2	6.0	6.3	6.3	5.3	4.8	4.7	4.9	5.1	5.5	3.5	3.6
J208	5.1	4.2	5.6	5.0	5.9	5.9	6.2	5.8	5.0	4.9	5.0	4.9	5.0	5.3	3.6	4.0
* LINN	4.5	1.8	3.8	2.7	6.0	5.3	5.2	4.4	3.6	4.2	4.3	3.5	3.5	4.3	1.8	1.5
LSD VALUE	0.8	1.0	0.6	0.6	0.8	0.4	0.4	0.6	0.8	0.3	0.6	0.6	0.6	0.5	0.5	0.5

* 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. (continued)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT THIRTY-ONE LOCATIONS IN THE UNITED STATES AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																
NAME	NM1	NY1	NY2	OH2	OK1	OR1	OR2	PA1	PA2	RI1	SD1	UB1	VA1	VA7	WA3	MEAN
PST-2PM (SATURN)	7.3	5.1	6.1	6.9	4.9	6.8	6.3	6.8	6.9	6.8	6.3	6.9	4.4	3.3	7.8	6.3
SR 4000	7.5	5.5	5.9	6.8	5.0	6.2	6.4	6.4	6.4	6.6	6.8	6.9	4.8	3.1	8.2	6.2
SR 4100	7.1	5.4	6.1	6.5	4.9	6.3	6.3	6.6	6.9	6.5	6.4	7.0	4.7	2.8	7.9	6.1
PST-2H7 (DIMENSION)	7.4	5.0	5.6	6.6	5.1	6.9	6.5	6.6	6.6	6.5	6.6	6.5	4.4	3.5	8.0	6.1
PST-M2E (MAN. II W/E)	7.4	4.9	6.3	6.9	5.1	6.9	6.5	6.7	6.3	6.6	6.5	6.8	4.4	3.2	7.2	6.1
PENNANT	7.3	5.3	5.8	6.5	5.2	5.8	6.0	6.4	6.7	6.7	6.4	6.4	4.8	3.8	8.1	6.1
PST-259 (COMMANDER)	7.2	5.3	6.1	6.6	4.3	6.4	6.4	6.9	6.5	6.4	6.8	6.5	4.7	3.2	7.9	6.1
PICK 600 (FIESTA II)	7.4	5.3	6.1	7.1	5.1	6.3	6.4	5.6	6.4	6.6	7.1	5.8	4.7	3.6	8.3	6.1
REPELL	7.3	5.1	6.3	6.9	4.6	6.0	6.3	6.2	6.7	6.8	6.7	6.8	4.3	3.3	7.6	6.1
PICK 647 (RIVIERA)	7.2	5.2	6.0	6.9	4.5	6.2	6.3	5.9	6.6	6.7	6.9	6.0	4.6	2.9	7.7	6.0
PALMER	7.4	4.8	5.8	6.6	3.9	6.2	6.1	5.9	6.7	6.4	6.5	6.0	4.9	3.9	8.0	6.0
PICK 300 (BLAZER II)	7.0	5.1	6.0	7.1	4.4	6.5	6.4	5.6	5.9	6.0	6.7	5.2	4.5	3.1	8.0	6.0
OMEGA II	7.5	5.1	5.7	6.8	5.1	6.9	6.2	5.9	6.3	6.4	6.6	6.5	4.5	3.4	8.3	6.0
PST-2HH (CHARGER)	7.1	5.0	5.8	6.5	4.1	6.6	6.3	5.7	6.1	6.4	6.9	6.2	4.7	3.2	8.1	6.0
PST-250 (COMPETITOR)	7.3	5.0	6.1	6.8	4.5	6.6	6.5	6.4	5.9	6.1	6.9	6.2	4.4	2.7	8.5	6.0
MANHATTAN II	7.3	4.9	5.9	6.9	4.5	6.5	6.5	5.9	6.2	6.2	6.4	6.1	4.7	3.1	8.1	6.0
PICK 233 (DASHER II)	7.2	5.2	5.7	6.6	4.8	6.2	6.4	6.2	6.5	6.6	6.5	6.5	4.7	2.8	7.2	5.9
PICK 715 (EDGE)	7.0	5.0	5.8	6.7	4.3	6.1	6.0	6.2	6.2	6.2	6.6	6.8	4.5	2.9	8.1	5.9
PST-2DD	7.4	5.0	.	6.9	5.2	7.1	6.5	.	6.6	6.3	6.9	6.5	4.1	3.0	7.7	5.9
CITATION II	7.5	4.8	5.6	6.3	5.5	6.4	6.2	5.7	6.2	6.3	6.4	6.8	4.5	2.9	7.8	5.9
PRELUDE	7.1	4.7	6.2	6.5	4.3	6.1	6.1	5.7	6.4	6.5	6.7	5.6	4.6	3.5	7.7	5.9
ALLAIRE	7.1	5.0	5.9	6.5	5.3	6.0	6.3	6.2	5.8	6.1	6.3	5.3	4.0	3.2	8.2	5.9
GATOR	7.4	5.0	5.8	6.8	4.5	6.0	6.3	6.0	6.4	6.5	6.6	5.1	4.8	3.2	8.1	5.9
ISI-851 (LINDSAY)	7.0	5.0	5.6	6.6	5.1	6.0	6.4	5.9	6.1	6.4	6.8	5.6	4.8	3.3	7.6	5.9
KWS-AL-2 (AQUARIUS)	7.2	4.6	6.3	7.0	5.0	6.5	6.7	5.8	5.9	6.0	7.3	5.4	4.0	2.9	8.3	5.8
TARA	7.0	4.8	5.9	7.0	4.3	6.5	6.4	5.6	6.2	6.5	6.6	4.9	4.3	3.3	7.7	5.8
GOALIE	7.1	4.8	5.9	6.5	4.3	5.3	5.7	5.8	5.9	6.5	6.8	5.7	4.8	3.4	7.3	5.8
PSU-333	7.3	5.1	5.6	6.6	4.7	5.4	6.0	6.2	6.1	6.5	6.5	5.4	4.5	3.1	7.3	5.8
PATRIOT	7.4	5.0	6.2	6.8	4.7	5.6	6.2	6.2	5.8	6.5	6.7	5.5	4.5	3.1	7.0	5.8
RODEO	7.0	4.8	5.9	6.6	5.0	5.9	6.2	6.2	6.3	6.3	6.3	4.8	3.9	3.1	7.9	5.8
BIRDIE II	7.5	4.9	5.7	6.1	4.3	6.1	6.1	5.9	6.4	6.3	6.1	6.4	4.6	2.6	7.6	5.8
BAR LP 410 (BARRAGE)	6.9	4.7	5.7	7.0	4.5	5.5	6.1	5.8	5.6	6.4	6.5	6.1	4.8	3.4	7.2	5.7
CALIENTE	7.1	4.7	5.9	6.4	2.9	5.4	5.8	5.8	6.1	5.9	6.3	6.0	4.7	3.4	7.3	5.7
RUNAWAY	7.5	5.1	5.7	6.8	4.8	5.3	5.9	5.9	5.6	6.1	6.7	5.0	4.6	3.3	7.4	5.7
PSU-222	7.6	5.2	6.1	6.5	5.1	5.5	5.8	5.7	5.9	6.6	6.8	4.9	4.5	2.7	7.3	5.7
DERBY	7.4	5.0	5.8	6.6	4.8	5.5	5.8	6.3	6.3	6.2	6.6	5.3	4.7	2.7	7.2	5.7
BELLE	7.5	4.5	5.7	6.5	4.8	5.0	5.8	5.3	5.7	6.3	6.9	4.7	4.4	3.2	7.0	5.7
246	7.3	4.2	6.0	6.4	5.4	6.2	6.2	5.6	5.5	5.9	6.3	6.5	4.5	2.7	7.6	5.7
RANGER	7.4	5.1	5.9	6.7	3.9	5.6	6.1	5.4	5.7	6.5	6.8	4.4	4.4	2.9	7.4	5.7
SR 4031 (NOVA)	7.3	4.9	5.8	6.0	5.0	5.7	5.9	6.3	5.6	6.1	5.8	6.3	4.6	2.5	7.3	5.6
YORKTOWN II	7.3	4.7	5.8	6.4	4.7	5.7	5.9	5.3	5.9	6.3	6.7	5.0	4.5	3.4	7.5	5.6
REGAL	7.2	4.3	5.4	6.7	4.6	5.4	5.6	5.9	5.6	5.7	5.9	6.4	4.6	2.8	7.4	5.6
RIVAL	7.3	4.9	5.3	6.3	4.8	5.0	5.9	5.7	6.5	6.0	6.3	5.1	4.5	3.0	6.5	5.6
PENNFINE	6.9	5.1	5.8	6.2	4.9	4.9	5.7	5.8	5.5	6.1	6.8	5.3	4.2	3.6	6.6	5.5
MOM LP 763 (TORONTO)	7.2	4.9	5.5	6.5	4.8	5.3	5.9	5.6	5.7	6.6	6.6	4.5	4.4	2.9	7.1	5.5

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
AT THIRTY-ONE LOCATIONS IN THE UNITED STATES AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																
NAME	NM1	NY1	NY2	OH2	OK1	OR1	OR2	PA1	PA2	RI1	SD1	UB1	VA1	VA7	WA3	MEAN
ACROBAT	7.4	4.9	5.5	6.7	3.7	5.3	5.8	5.1	5.6	6.1	6.7	4.7	4.4	2.9	6.5	5.5
BAR LP 454 (BARCREDO)	7.4	5.4	6.0	6.5	4.2	5.3	5.7	5.2	5.5	6.4	7.0	5.3	4.5	2.9	7.5	5.5
BARRY	7.1	4.8	5.4	6.3	4.6	5.7	6.1	5.6	5.1	6.2	6.7	5.6	4.2	2.7	7.5	5.5
DIPLOMAT	7.3	4.5	5.6	6.4	4.2	5.4	5.8	5.4	6.1	5.8	6.6	4.5	4.2	3.3	6.7	5.5
NK 80389	7.4	4.3	5.6	6.6	5.1	5.5	5.9	5.9	5.1	6.2	7.1	4.0	4.3	3.0	7.3	5.5
DEL 946	7.2	5.2	5.8	6.4	4.6	4.7	5.5	5.8	5.6	6.2	6.4	4.8	4.6	2.9	5.4	5.5
OVATION	7.2	5.0	5.8	6.5	5.0	4.9	5.6	5.6	5.2	6.0	6.9	5.4	4.3	3.1	7.2	5.5
RONJA	7.2	4.9	5.1	6.4	4.4	5.6	6.1	5.1	5.7	6.3	6.3	4.9	4.6	3.0	7.2	5.5
BRENDA	7.4	4.6	5.6	6.2	4.9	5.2	5.6	5.4	5.3	6.0	6.8	4.6	4.4	3.0	6.3	5.5
VINTAGE-2DF	7.2	4.4	5.7	6.5	4.9	5.3	6.0	5.6	5.2	5.8	6.0	5.9	4.3	2.9	6.9	5.5
ISI-K2 (DILLON)	7.0	5.1	5.8	6.6	4.7	5.3	5.9	5.3	5.2	6.3	6.6	4.7	4.1	3.0	6.6	5.4
REGENCY	7.0	4.7	5.5	6.3	4.8	5.3	5.6	5.5	5.7	6.3	6.4	4.6	4.7	3.1	7.2	5.4
SHERIFF	7.1	4.7	5.4	6.2	4.5	5.3	5.9	5.4	5.3	6.0	6.3	5.0	4.3	3.0	6.3	5.4
DELRAY	7.1	4.7	5.7	6.4	4.5	5.3	5.5	5.7	5.9	5.9	6.4	4.7	4.5	2.4	6.4	5.4
MANHATTAN	7.2	4.6	5.8	6.3	5.1	4.8	5.9	4.9	4.9	6.2	6.1	4.6	4.2	3.3	6.3	5.3
PAVO	7.5	5.0	5.8	6.8	3.6	4.9	5.9	5.1	5.9	6.0	6.3	5.0	4.2	3.6	6.4	5.3
COWBOY	7.0	4.7	5.3	5.9	4.8	5.5	6.0	5.6	5.5	5.8	5.7	4.7	4.1	2.4	7.0	5.3
J207	7.3	4.8	5.5	6.4	4.5	4.5	5.7	5.8	5.3	6.4	6.5	4.7	4.3	2.7	5.4	5.2
J208	7.3	4.9	5.2	6.5	4.6	4.9	5.7	5.5	5.3	6.1	6.5	4.7	4.1	2.3	5.4	5.2
LINN	7.2	3.3	4.4	4.7	5.0	2.6	4.2	2.9	1.8	4.2	5.1	2.4	3.2	2.4	4.5	3.8
LSD VALUE	0.7	0.5	0.7	0.5	1.5	0.4	0.4	0.8	0.7	0.5	0.4	0.7	0.5	0.5	0.8	0.1

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 2. MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH MONTH GROWN AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA 1987-1990 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)	6.4	6.3	6.2	6.4	6.4	6.1	6.2	6.2	6.4	6.4	6.4	5.6	6.3
SR 4000	5.7	5.7	5.8	6.2	6.3	6.2	6.2	6.0	6.3	6.4	6.4	5.6	6.2
SR 4100	5.7	5.7	5.6	6.2	6.2	6.1	6.2	6.1	6.3	6.4	6.3	5.5	6.2
PST-2H7 (DIMENSION)	6.1	6.0	5.9	6.3	6.3	6.1	6.1	6.0	6.2	6.4	6.5	6.2	6.2
PST-M2E (MAN. II W/E)	5.8	5.9	5.9	6.2	6.3	6.2	6.0	6.0	6.2	6.4	6.5	5.7	6.2
PST-259 (COMMANDER)	6.2	5.9	5.9	6.2	6.3	6.0	6.1	6.0	6.2	6.2	6.2	5.6	6.1
PENNNANT	5.6	5.6	5.9	5.9	6.0	6.0	6.1	6.1	6.2	6.3	6.2	5.4	6.1
PICK 600 (FIESTA II)	5.6	5.7	5.8	6.1	6.3	6.1	5.9	5.9	6.2	6.2	6.2	5.6	6.1
PICK 647 (RIVIERA)	5.8	5.7	5.8	6.0	6.3	6.0	6.0	6.0	6.2	6.3	6.2	5.6	6.1
REPELL	5.8	5.8	5.7	6.1	6.4	6.2	5.9	5.8	6.0	6.2	6.2	5.3	6.1
PICK 300 (BLAZER II)	5.7	5.6	5.6	6.2	6.4	6.1	5.8	5.8	6.2	6.2	6.1	5.7	6.1
PALMER	5.9	6.0	6.0	6.0	6.0	6.0	5.9	5.9	6.2	6.3	6.2	5.7	6.1
PST-2HH (CHARGER)	5.8	5.6	5.6	6.1	6.2	6.0	6.0	5.8	6.1	6.2	6.1	5.7	6.0
OMEGA II	6.5	6.2	5.8	6.1	6.3	6.0	6.0	5.8	6.1	6.1	6.1	5.9	6.0
PICK 233 (DASHER II)	6.3	5.9	5.7	6.0	6.1	5.9	5.9	5.9	6.0	6.3	6.4	5.6	6.0
MANHATTAN II	6.2	5.9	5.7	6.1	6.2	6.1	5.8	5.6	5.9	6.1	6.2	5.8	6.0
PST-250 (COMPETITOR)	5.8	5.8	5.8	6.2	6.3	6.0	5.7	5.6	6.0	6.1	6.2	5.7	6.0
PICK 715 (EDGE)	5.6	5.6	5.7	6.0	6.1	5.8	5.9	5.9	6.2	6.2	6.1	5.6	6.0
CITATION II	6.4	6.1	5.8	6.1	6.1	5.8	5.8	5.7	6.0	6.1	6.0	5.6	5.9
PST-2DD	6.4	5.8	5.6	6.1	6.4	6.0	5.7	5.3	6.0	6.2	6.3	5.8	5.9
PRELUDE	5.8	5.7	5.8	6.0	5.9	5.8	5.7	5.7	6.0	6.1	6.2	5.3	5.9
GATOR	5.4	5.7	5.7	6.1	6.3	5.9	5.5	5.6	5.9	6.1	6.0	5.3	5.9
ALLAIRE	5.7	5.6	5.7	6.1	6.1	6.0	5.7	5.4	5.9	6.1	6.1	5.2	5.9
ISI-851 (LINDSAY)	6.2	5.8	5.5	6.1	6.1	5.8	5.7	5.5	5.9	6.1	6.0	5.4	5.9
TARA	6.0	5.8	5.8	5.9	6.1	5.9	5.8	5.6	5.7	5.9	5.9	5.7	5.9
KWS-AL-2 (AQUARIUS)	5.2	5.8	5.6	6.3	6.2	6.0	5.5	5.3	5.8	6.0	6.0	5.7	5.9
GOALIE	5.2	5.4	5.7	5.8	5.7	5.7	5.8	5.8	5.9	6.0	5.8	4.8	5.8
PSU-333	5.5	5.6	5.6	5.8	5.8	5.8	5.8	5.6	5.7	5.8	5.8	5.3	5.8
PATRIOT	5.6	5.6	5.4	5.9	5.9	5.7	5.7	5.4	5.8	6.0	5.9	5.2	5.8
BIRDIE II	6.3	6.0	5.7	5.7	5.7	5.7	5.8	5.7	5.9	6.0	5.9	5.6	5.8
BAR LP 410 (BARRAGE)	5.1	5.6	5.5	6.0	6.1	5.7	5.5	5.4	5.7	5.9	5.6	5.1	5.8
CALIENTE	5.3	5.4	5.4	5.6	5.7	5.7	5.8	5.6	5.8	5.9	5.7	5.3	5.8
RODEO	5.3	5.5	5.4	5.9	6.0	5.9	5.6	5.2	5.7	6.0	5.9	5.2	5.8
RUNAWAY	5.6	5.5	5.5	5.9	6.0	5.7	5.4	5.3	5.5	5.9	5.7	5.3	5.7
PSU-222	5.3	5.7	5.6	5.7	5.8	5.8	5.6	5.3	5.6	5.7	5.7	5.2	5.7
BELLE	5.2	5.4	5.5	5.8	5.8	5.7	5.5	5.4	5.6	5.8	5.8	5.0	5.7
246	6.2	5.8	5.8	6.0	5.7	5.3	5.4	5.3	5.8	6.0	6.1	5.9	5.7
DERBY	5.4	5.3	5.5	5.8	5.7	5.6	5.7	5.5	5.6	5.8	5.6	5.0	5.7
RANGER	5.6	5.5	5.5	5.5	5.9	5.7	5.5	5.3	5.7	5.7	5.7	5.2	5.7
SR 4031 (NOVA)	5.4	5.4	5.4	5.8	5.6	5.5	5.6	5.4	5.7	5.8	5.8	5.2	5.6
REGAL	5.4	5.4	5.5	5.7	5.6	5.7	5.7	5.4	5.6	5.7	5.6	5.2	5.6
ACROBAT	5.2	5.2	5.3	5.6	5.9	5.4	5.3	5.3	5.6	5.7	5.6	4.8	5.6
YORKTOWN II	5.8	5.8	5.5	5.4	5.7	5.7	5.4	5.2	5.4	5.6	5.7	5.7	5.6
RIVAL	4.5	5.0	5.1	5.3	5.8	5.7	5.4	5.3	5.6	5.7	5.3	4.9	5.6
MOM LP 763 (TORONTO)	5.1	5.4	5.4	5.4	5.7	5.6	5.4	5.2	5.5	5.7	5.4	5.0	5.5

TABLE 2. (continued) MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR
EACH MONTH GROWN AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PENNFINE	4.9	5.1	5.3	5.4	5.5	5.6	5.6	5.3	5.4	5.6	5.3	4.7	5.5
BAR LP 454 (BARCREDO)	5.3	5.4	5.3	5.4	5.9	5.6	5.3	5.1	5.4	5.6	5.3	4.9	5.5
BARRY	5.6	5.6	5.2	5.4	5.8	5.6	5.4	5.2	5.5	5.7	5.6	5.3	5.5
RONJA	5.6	5.5	5.2	5.5	6.0	5.8	5.1	4.9	5.4	5.7	5.5	5.1	5.5
DEL 946	4.7	5.0	5.3	5.5	5.4	5.4	5.4	5.4	5.6	5.7	5.1	4.7	5.5
DIPLOMAT	5.8	5.8	5.5	5.3	5.6	5.5	5.2	5.1	5.4	5.6	5.5	5.2	5.5
BRENDA	5.3	5.1	5.4	5.5	5.4	5.4	5.4	5.2	5.5	5.6	5.4	5.1	5.5
OVATION	4.8	4.9	5.1	5.4	5.7	5.5	5.3	5.1	5.4	5.6	5.4	4.7	5.5
NK 80389	5.4	5.8	5.4	5.4	5.9	5.6	5.3	5.0	5.2	5.5	5.4	5.5	5.5
VINTAGE-2DF	5.6	5.6	5.4	5.4	5.5	5.3	5.3	5.2	5.5	5.6	5.5	5.1	5.5
ISI-K2 (DILLON)	5.4	5.4	5.1	5.5	5.7	5.4	5.2	5.0	5.4	5.5	5.3	5.0	5.4
SHERIFF	5.5	5.5	5.2	5.4	5.5	5.3	5.3	5.1	5.4	5.6	5.5	5.0	5.4
REGENCY	5.4	5.5	5.3	5.3	5.4	5.3	5.3	5.1	5.4	5.6	5.3	5.0	5.4
DELRAY	5.3	5.2	5.1	5.4	5.4	5.3	5.3	5.2	5.4	5.4	5.0	4.6	5.4
MANHATTAN	5.2	5.2	5.2	5.4	5.7	5.4	5.1	4.7	5.1	5.3	5.3	5.0	5.3
COWBOY	5.8	5.6	5.3	5.3	5.1	5.2	5.3	5.2	5.4	5.5	5.3	5.3	5.3
PAVO	4.9	5.4	5.2	5.3	5.7	5.3	5.1	4.9	5.3	5.3	5.0	4.8	5.3
J207	4.7	5.0	5.0	5.1	5.5	5.3	4.9	4.8	5.1	5.3	4.9	4.8	5.2
J208	4.8	4.8	4.9	4.9	5.5	5.2	4.9	4.8	5.2	5.4	5.3	4.9	5.2
LINN	3.6	4.1	3.8	3.5	3.8	3.7	3.7	3.4	3.8	3.8	3.5	3.5	3.7
LSD VALUE	1.1	0.7	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.9	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 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
CULTIVARS AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA 1/
1987-1990 DATA

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

NAME	BC1	DC1	ID2	IL1	IL2	IN1	KS1	KS2	KY1	MA1	MD1	MI1	MD1	NE1	NJ1	NJ2
PST-2PM (SATURN)	28.0	12.0	4.0	1.0	6.0	2.0	9.0	1.0	2.0	26.0	12.0	2.0	2.0	1.0	9	3.0
SR 4000	50.0	50.0	15.0	11.0	10.0	14.0	13.0	23.0	10.0	26.0	1.0	3.0	5.0	8.5	1	2.0
SR 4100	53.0	44.5	11.0	6.0	1.0	7.0	5.0	14.0	7.0	2.5	5.0	9.5	1.0	34.5	2	20.0
PST-2H7 (DIMENSION)	32.0	40.0	5.0	3.5	30.0	26.0	10.0	3.0	8.0	2.5	40.0	1.0	13.0	8.5	5	1.0
PST-M2E (MAN. II W/E)	12.0	18.0	23.0	17.5	26.0	1.0	3.0	6.0	17.0	60.0	17.0	11.0	7.0	43.5	6	9.5
PENNANT	7.0	22.0	14.0	9.0	5.0	10.0	38.0	11.0	13.0	17.0	8.0	14.0	6.0	17.5	11	21.0
PST-259 (COMMANDER)	43.0	8.0	30.0	8.0	9.0	6.0	16.0	15.0	1.0	32.5	23.5	26.0	15.0	14.5	14	9.5
PICK 600 (FIESTA II)	35.0	39.0	9.0	3.5	25.0	3.0	7.0	27.5	15.0	4.5	42.0	25.0	9.0	2.0	13	11.0
REPELL	3.0	3.0	27.0	32.0	12.0	4.0	22.0	37.0	3.0	26.0	13.0	12.0	24.0	20.0	18	23.0
PICK 647 (RIVIERA)	4.0	42.0	18.0	5.0	4.0	24.0	17.0	8.0	4.0	36.5	37.0	5.0	4.0	11.5	8	13.0
PALMER	1.0	1.0	13.0	2.0	21.0	9.0	30.0	26.0	22.0	26.0	9.0	17.0	23.0	34.5	20	25.0
PICK 300 (BLAZER II)	30.0	6.0	3.0	16.0	22.0	5.0	1.0	45.0	16.0	4.5	41.0	7.5	11.5	3.5	10	5.0
OMEGA II	11.0	60.0	8.0	14.5	44.0	20.0	12.0	13.0	5.0	38.5	30.0	19.0	16.5	17.5	15	18.0
PST-2HH (CHARGER)	54.0	48.0	7.0	14.5	3.0	8.0	14.0	2.0	26.0	42.0	6.5	4.0	19.0	24.5	27	6.0
PST-250 (COMPETITOR)	48.0	20.0	36.0	37.5	28.0	27.5	25.0	16.0	28.0	1.0	46.0	27.5	14.0	14.5	12	12.0
MANHATTAN II	8.0	27.0	16.0	10.0	33.0	29.0	32.0	9.0	39.0	54.5	21.0	7.5	40.0	24.5	19	14.0
PICK 233 (DASHER II)	34.0	58.0	35.0	46.0	38.0	12.0	4.0	4.5	9.0	47.0	20.0	16.0	8.0	22.5	7	15.0
PICK 715 (EDGE)	38.0	53.0	28.0	12.0	49.0	16.0	18.0	18.0	12.0	34.5	4.0	40.0	3.0	38.5	3	17.0
PST-2DD	40.0	55.0	1.0	52.0	20.0	25.0	29.0	58.0	23.5	42.0	56.0	30.0	60.0	3.5	23	8.0
CITATION II	6.0	63.0	45.5	13.0	18.0	23.0	21.0	10.0	6.0	26.0	2.0	18.0	18.0	49.5	22	16.0
PRELUDE	19.0	5.0	22.0	24.0	19.0	35.0	23.0	7.0	40.0	21.0	10.0	24.0	28.0	51.0	25	26.0
ALLAIRE	24.0	10.0	24.0	25.0	45.5	13.0	6.0	47.0	37.0	51.0	16.0	6.0	30.0	8.5	16	7.0
GATOR	29.0	11.0	20.0	20.0	50.0	34.0	27.0	35.0	19.0	38.5	32.5	32.0	29.0	14.5	26	22.0
ISI-851 (LINDSAY)	21.0	33.0	25.0	28.0	31.0	37.0	20.0	32.0	34.0	26.0	14.0	13.0	35.0	20.0	29	24.0
KWS-AL-2 (AQUARIUS)	47.0	59.0	2.0	56.0	51.0	51.0	2.0	33.0	55.0	34.5	54.0	22.0	33.0	26.0	4	4.0
TARA	9.0	46.0	6.0	17.5	27.0	32.0	11.0	41.0	18.0	36.5	25.0	9.5	50.0	29.0	28	19.0
GOALIE	23.0	21.0	17.0	27.0	2.0	30.0	31.0	20.0	33.0	13.0	6.5	29.0	21.0	59.5	24	35.0
PSU-333	22.0	17.0	43.0	40.5	8.0	19.0	35.0	24.0	29.0	7.0	23.5	23.0	44.0	22.5	33	29.0
PATRIOT	26.0	30.0	41.0	40.5	16.0	46.0	40.0	4.5	38.0	42.0	51.5	52.0	16.5	14.5	30	32.0
RODEO	2.0	23.0	10.0	33.0	54.0	33.0	26.0	61.0	45.0	17.0	55.0	21.0	37.0	20.0	17	27.0
BIRDIE II	45.0	36.5	29.0	21.0	15.0	39.0	42.0	22.0	27.0	51.0	15.0	39.0	20.0	29.0	39	36.0
BAR LP 410 (BARRAGE)	14.0	19.0	60.0	35.0	24.0	41.0	15.0	29.0	25.0	45.0	35.0	37.0	10.0	53.5	41	38.0
CALIENTE	55.5	7.0	49.0	26.0	7.0	50.0	33.5	12.0	14.0	17.0	11.0	58.0	26.0	5.0	31	39.0
RUNAWAY	20.0	15.0	42.0	40.5	41.0	18.0	51.0	31.0	35.0	51.0	28.5	15.0	42.0	63.0	34	33.0
PSU-222	62.0	25.0	37.0	50.0	35.0	36.0	28.0	43.0	30.0	32.5	22.0	27.5	51.0	6.0	32	43.0
DERBY	15.0	49.0	34.0	45.0	11.0	17.0	39.0	34.0	46.0	30.5	34.0	36.0	31.0	43.5	38	37.0
BELLE	18.0	32.0	26.0	23.0	36.0	40.0	36.0	17.0	36.0	13.0	39.0	20.0	38.0	34.5	21	28.0
246	63.0	41.0	31.0	48.0	52.0	44.0	45.0	19.0	50.0	21.0	47.0	46.0	22.0	46.0	37	30.0
RANGER	39.0	24.0	40.0	37.5	39.0	31.0	8.0	46.0	20.0	17.0	53.0	45.0	32.0	40.5	35	40.0
SR 4031 (NOVA)	42.0	64.0	51.0	51.0	17.0	11.0	33.5	36.0	21.0	30.5	19.0	33.0	46.0	49.5	42	31.0
YORKTOWN II	5.0	16.0	47.0	31.0	42.0	42.0	19.0	57.0	48.0	51.0	61.0	38.0	52.0	53.5	55	45.0
REGAL	59.0	34.0	44.0	63.0	14.0	54.0	58.0	21.0	23.5	51.0	44.0	31.0	25.0	53.5	36	34.0
RIVAL	41.0	28.0	21.0	22.0	29.0	15.0	48.0	42.0	58.0	21.0	32.5	35.0	43.0	38.5	51	57.5
PENNFINE	33.0	47.0	54.0	47.0	23.0	48.0	62.0	30.0	43.0	9.0	26.0	54.0	48.5	29.0	45	51.0
MOM LP 763 (TORONTO)	25.0	13.0	58.0	29.0	53.0	43.0	57.0	50.0	32.0	17.0	18.0	50.0	45.0	56.0	57	56.0

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
CULTIVARS AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA
1987-1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING																
NAME	BC1	DC1	ID2	IL1	IL2	IN1	KS1	KS2	KY1	MA1	MD1	MI1	MD1	NE1	NJ1	NJ2
ACROBAT	37.0	2.0	56.0	43.0	56.0	47.0	46.0	52.0	44.0	13.0	27.0	53.0	11.5	34.5	46	47.0
BAR LP 454 (BARCREDO)	52.0	56.0	19.0	30.0	62.0	22.0	50.0	59.0	47.0	63.0	59.0	59.0	56.0	11.5	52	50.0
BARRY	13.0	52.0	55.0	36.0	48.0	58.0	47.0	40.0	59.0	56.5	60.0	34.0	59.0	46.0	40	41.0
DIPLOMAT	49.0	4.0	32.0	40.5	43.0	55.0	37.0	54.0	56.0	26.0	58.0	57.0	27.0	40.5	59	46.0
NK 80389	36.0	38.0	38.0	57.0	59.0	45.0	44.0	49.0	31.0	42.0	63.0	47.0	61.0	29.0	44	49.0
DEL 946	44.0	51.0	53.0	54.0	13.0	60.0	43.0	48.0	11.0	6.0	3.0	51.0	48.5	34.5	50	55.0
OVATION	46.0	44.5	52.0	7.0	65.0	21.0	53.0	60.0	51.0	62.0	36.0	43.0	34.0	64.0	53	57.5
RONJA	58.0	31.0	12.0	61.0	34.0	52.0	41.0	62.0	62.0	11.0	48.0	55.0	53.0	53.5	49	54.0
BRENDA	60.0	36.5	33.0	19.0	57.0	27.5	55.0	27.5	53.0	9.0	51.5	42.0	57.0	57.5	47	44.0
VINTAGE-2DF	31.0	35.0	64.0	59.5	32.0	53.0	54.0	39.0	42.0	54.5	38.0	44.0	36.0	8.5	60	62.0
ISI-K2 (DILLON)	16.0	57.0	62.0	34.0	45.5	59.0	24.0	53.0	41.0	47.0	43.0	56.0	47.0	29.0	56	53.0
REGENCY	10.0	43.0	50.0	44.0	61.0	38.0	60.0	38.0	63.0	58.0	50.0	49.0	55.0	34.5	58	61.0
SHERIFF	27.0	14.0	59.0	58.0	60.0	62.0	59.0	51.0	61.0	42.0	31.0	62.0	39.0	57.5	54	42.0
DELRAY	55.5	61.0	61.0	64.0	37.0	49.0	49.0	25.0	54.0	9.0	28.5	64.0	41.0	59.5	48	48.0
MANHATTAN	57.0	9.0	45.5	55.0	55.0	57.0	64.0	63.0	49.0	60.0	45.0	41.0	58.0	46.0	63	59.0
PAVO	61.0	26.0	48.0	59.5	64.0	56.0	52.0	44.0	52.0	64.0	64.0	63.0	62.0	42.0	64	63.0
COWBOY	17.0	62.0	39.0	53.0	40.0	61.0	56.0	56.0	60.0	60.0	49.0	48.0	54.0	61.5	43	52.0
J207	51.0	54.0	63.0	49.0	47.0	63.0	61.0	55.0	57.0	56.5	62.0	61.0	63.0	48.0	62	64.0
J208	64.0	29.0	57.0	62.0	63.0	64.0	63.0	64.0	64.0	47.0	57.0	60.0	64.0	61.5	61	60.0
LINN	65.0	65.0	65.0	65.0	58.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65	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. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
CULTIVARS AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA
1987-1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NM1	NY1	NY2	OH2	OK1	OR1	OR2	PA1	PA2	RI1	SD1	UB1	VA1	VA7	WA3	MEAN
PST-2PM (SATURN)	23.0	16.0	8.5	6.5	22.0	5.0	19.5	2.0	2.0	1.0	50.5	2	39	14.5	19.0	1
SR 4000	6.0	1.0	19.5	17.0	18.5	17.5	8.0	8.0	14.5	5.0	11.0	3	6	32.0	5.5	2
SR 4100	47.0	2.5	8.5	34.0	23.5	15.0	15.0	4.0	1.0	11.0	46.5	1	10	52.0	16.0	3
PST-2H7 (DIMENSION)	12.0	23.0	49.0	26.0	11.0	4.0	2.0	5.0	8.0	16.0	34.5	12	37	6.5	13.0	4
PST-M2E (MAN. II W/E)	9.0	35.0	2.5	8.0	8.0	2.5	3.0	3.0	20.0	10.0	37.0	7	44	20.0	43.0	5
PENNANT	31.0	4.0	33.5	40.0	4.5	29.0	35.0	7.0	3.5	4.0	49.0	15	5	2.0	9.0	6
PST-259 (COMMANDER)	38.0	5.0	8.5	31.0	53.5	12.0	9.0	1.0	9.5	23.0	12.5	10	12	23.5	16.0	7
PICK 600 (FIESTA II)	19.0	6.0	8.5	2.0	6.0	14.0	13.0	42.0	14.5	9.0	2.0	26	8	3.5	3.0	8
REPELL	25.0	13.0	2.5	11.0	38.5	25.0	16.5	12.0	5.0	2.0	26.0	6	46	18.0	25.5	9
PICK 647 (RIVIERA)	42.5	7.0	13.5	9.5	42.5	20.0	19.5	22.0	6.5	3.0	10.0	22	18	42.5	21.5	10
PALMER	16.5	46.0	33.5	32.0	62.0	16.0	26.0	25.5	3.5	25.0	40.0	23	1	1.0	13.0	11
PICK 300 (BLAZER II)	57.0	19.0	13.5	1.0	50.5	9.0	10.0	47.5	36.5	57.0	19.0	39	34	26.5	13.0	12
OMEGA II	7.0	14.0	41.5	13.5	8.0	2.5	21.0	22.0	17.5	22.0	29.5	13	31	8.5	3.0	13
PST-2HH (CHARGER)	54.5	22.0	33.5	44.5	60.0	6.0	16.5	36.0	25.5	27.0	5.0	18	13	23.5	9.0	14
PST-250 (COMPETITOR)	29.5	31.0	8.5	12.0	49.0	7.0	6.0	6.0	32.0	46.0	8.5	19	43	58.0	1.0	15
MANHATTAN II	33.0	39.5	19.5	6.5	42.5	8.0	5.0	19.0	22.5	40.0	44.0	21	9	28.5	9.0	16
PICK 233 (DASHER II)	46.0	8.0	41.5	29.5	28.5	17.5	11.0	14.0	9.5	7.0	41.0	9	15	53.0	43.0	17
PICK 715 (EDGE)	61.0	21.0	33.5	19.0	56.5	21.0	34.0	16.0	22.5	37.0	32.0	5	36	44.5	9.0	18
PST-2DD	19.0	26.0	.	9.5	4.5	1.0	4.0	.	6.5	28.0	6.0	8	59	36.5	21.5	19
CITATION II	4.0	47.0	49.0	56.0	1.0	13.0	24.0	39.5	22.5	34.0	48.0	4	30	49.0	18.0	20
PRELUDE	53.0	53.0	4.5	34.0	53.5	23.0	29.0	38.0	14.5	15.0	24.5	30	21	6.5	21.5	21
ALLAIRE	48.5	29.0	19.5	44.5	3.0	26.0	14.0	12.0	38.5	44.0	56.0	38	62	23.5	5.5	22
GATOR	21.0	20.0	26.5	15.0	46.5	24.0	18.0	18.0	14.5	14.0	34.5	41	3	21.0	9.0	23
ISI-851 (LINDSAY)	63.0	30.0	49.0	29.5	11.0	27.0	7.0	27.0	28.5	24.0	15.0	28	4	18.0	25.5	24
KWS-AL-2 (AQUARIUS)	40.5	57.0	1.0	5.0	15.5	10.0	1.0	33.0	35.0	54.0	1.0	33	63	49.0	3.0	25
TARA	62.0	44.0	19.5	3.0	53.5	11.0	12.0	45.0	22.5	17.0	32.0	48	47	16.0	21.5	26
GOALIE	54.5	42.5	19.5	41.0	56.5	52.0	58.0	33.0	32.0	13.0	14.0	27	7	10.5	35.0	27
PSU-333	28.0	12.0	49.0	28.0	35.0	41.0	36.0	16.0	27.0	19.0	37.0	34	28	26.5	35.0	28
PATRIOT	16.5	24.0	4.5	16.0	35.0	33.0	23.0	16.0	38.5	12.0	21.0	31	33	32.0	49.0	29
RODEO	59.0	41.0	19.5	23.0	15.5	28.0	22.0	12.0	17.5	33.0	57.0	50	64	28.5	16.0	30
BIRDIE II	8.0	38.0	41.5	62.0	53.5	22.0	27.0	22.0	12.0	29.0	60.0	16	20	60.0	25.5	31
BAR LP 410 (BARRAGE)	64.0	54.5	41.5	4.0	46.5	40.0	31.0	33.0	46.5	20.0	39.0	20	2	8.5	43.0	32
CALIENTE	50.0	54.5	19.5	49.0	65.0	43.0	53.0	29.0	25.5	58.0	55.0	24	16	12.0	38.0	33
RUNAWAY	3.0	17.0	41.5	18.0	28.5	47.0	38.0	22.0	46.5	50.0	22.5	43	19	13.0	32.0	34
PSU-222	1.0	9.0	8.5	36.0	13.0	37.0	48.0	36.0	32.0	8.0	18.0	47	27	55.5	38.0	35
DERBY	19.0	25.0	33.5	27.0	28.5	39.0	49.5	9.0	19.0	42.0	32.0	36	11	58.0	43.0	36
BELLE	2.0	59.0	41.5	34.0	28.5	56.0	49.5	56.5	42.0	30.0	7.0	55	40	23.5	49.0	37
246	26.0	64.0	13.5	50.0	2.0	19.0	25.0	42.0	53.0	59.0	58.0	11	32	58.0	25.5	38
RANGER	11.0	11.0	19.5	22.0	61.0	34.5	28.0	54.0	42.0	18.0	12.5	63	42	46.5	32.0	39
SR 4031 (NOVA)	32.0	36.0	26.5	63.0	15.5	31.0	43.0	10.0	46.5	47.0	63.0	17	22	61.0	35.0	40
YORKTOWN II	24.0	51.0	26.5	47.0	35.0	32.0	46.0	58.0	32.0	31.0	20.0	42	29	10.5	29.0	41
REGAL	37.0	62.0	58.0	20.5	38.5	44.0	59.5	25.5	49.5	64.0	62.0	14	24	51.0	32.0	42
RIVAL	34.0	34.0	60.5	55.0	28.5	57.0	45.0	36.0	11.0	51.0	53.5	40	25	36.5	55.0	43
PENNFINE	65.0	15.0	33.5	61.0	20.5	61.0	55.0	29.0	53.0	45.0	16.5	37	57	5.0	53.5	44
MOM LP 763 (TORONTO)	39.0	37.0	54.5	43.0	28.5	48.0	47.0	42.0	40.0	6.0	27.0	61	45	44.5	47.0	45

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS
CULTIVARS AT THIRTY-ONE LOCATIONS IN THE U. S. AND CANADA
1987-1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NM1	NY1	NY2	OH2	OK1	OR1	OR2	PA1	PA2	RI1	SD1	UB1	VA1	VA7	WA3	MEAN
ACROBAT	13.0	33.0	54.5	20.5	63.0	49.5	52.0	61.0	46.5	49.0	22.5	54	41	49.0	56.0	46
BAR LP 454 (BARCREDO)	15.0	2.5	13.5	38.0	58.5	49.5	57.0	59.0	53.0	21.0	4.0	35	26	46.5	29.0	47
BARRY	51.0	45.0	58.0	57.0	38.5	30.0	30.0	49.0	63.0	41.0	24.5	29	56	55.5	29.0	48
DIPLOMAT	29.5	60.0	49.0	46.0	58.5	42.0	51.0	54.0	28.5	61.5	28.0	62	53	14.5	52.0	49
NK 80389	14.0	63.0	49.0	24.5	8.0	38.0	42.0	22.0	62.0	38.0	3.0	64	49	39.5	38.0	50
DEL 946	35.0	10.0	26.5	53.0	41.0	63.0	64.0	29.0	49.5	43.0	46.5	49	23	41.0	63.0	51
OVATION	36.0	27.0	26.5	38.0	18.5	58.0	62.0	47.5	60.0	52.0	8.5	32	51	30.0	43.0	52
RONJA	45.0	39.5	63.0	48.0	50.5	34.5	32.0	62.0	44.0	35.0	50.5	46	17	36.5	43.0	53
BRENDA	10.0	56.0	49.0	59.0	20.5	55.0	61.0	54.0	57.5	55.0	16.5	58	38	34.0	60.0	54
VINTAGE-2DF	42.5	61.0	41.5	38.0	23.5	51.0	37.0	45.0	60.0	63.0	61.0	25	52	42.5	51.0	55
ISI-K2 (DILLON)	60.0	18.0	26.5	24.5	33.0	46.0	40.0	56.5	60.0	36.0	29.5	53	58	39.5	53.5	56
REGENCY	56.0	49.0	54.5	58.0	28.5	45.0	59.5	50.5	42.0	32.0	45.0	60	14	32.0	43.0	57
SHERIFF	48.5	52.0	58.0	60.0	46.5	53.0	41.0	52.0	57.5	53.0	52.0	44	48	36.5	60.0	58
DELRAY	52.0	48.0	41.5	51.0	46.5	54.0	63.0	39.5	32.0	60.0	43.0	57	35	62.0	57.5	59
MANHATTAN	44.0	58.0	33.5	54.0	11.0	62.0	39.0	63.0	64.0	39.0	59.0	59	55	18.0	60.0	60
PAVO	5.0	28.0	33.5	13.5	64.0	59.0	44.0	60.0	36.5	56.0	53.5	45	54	3.5	57.5	61
COWBOY	58.0	50.0	60.5	64.0	28.5	36.0	33.0	45.0	51.0	61.5	64.0	51	60	64.0	49.0	62
J207	22.0	42.5	54.5	52.0	44.0	64.0	54.0	31.0	55.5	26.0	42.0	56	50	54.0	63.0	63
J208	27.0	32.0	62.0	42.0	38.5	60.0	56.0	50.5	55.5	48.0	37.0	52	61	65.0	63.0	64
LINN	40.5	65.0	64.0	65.0	15.5	65.0	65.0	64.0	65.0	65.0	65.0	65	65	63.0	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.

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH YEAR GROWN
IN THE UNITED STATES AND CANADA
1987-1990 DATA

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

NAME	1987MEAN	1988MEAN	1989MEAN	1990MEAN	1987-90 MEAN
PST-2PM (SATURN)	6.4	6.3	6.4	6.3	6.3
SR 4000	6.3	6.2	6.2	6.2	6.2
SR 4100	6.1	6.1	6.3	6.0	6.1
PST-2H7 (DIMENSION)	6.3	6.1	6.2	6.1	6.1
PST-M2E (MAIN. II W/E)	6.2	6.1	6.2	6.3	6.1
PENNANT	6.2	6.1	6.2	5.6	6.1
PST-259 (COMMANDER)	6.0	6.1	6.2	5.8	6.1
PICK 600 (FIESTA II)	6.3	6.1	6.1	5.2	6.1
REFELL	6.1	6.1	6.1	5.1	6.1
PICK 647 (RIVIERA)	6.3	6.1	6.1	5.8	6.0
PALMER	6.1	6.1	6.1	5.3	6.0
PICK 300 (BLAZER II)	6.1	6.0	6.0	5.4	6.0
OMEGA II	6.2	6.0	6.0	5.3	6.0
PST-2HH (CHARGER)	6.2	6.0	6.1	4.8	6.0
PST-250 (COMPETITOR)	6.2	6.0	5.9	5.7	6.0
MANHATTAN II	6.2	6.0	5.9	5.5	6.0
PICK 233 (DASHER II)	6.2	5.9	6.1	5.7	5.9
PICK 715 (EDGE)	6.0	5.9	6.1	5.7	5.9
PST-2DD	6.2	5.8	5.9	5.0	5.9
CITATION II	6.1	5.9	5.9	5.4	5.9
PRELUDE	6.0	5.9	5.9	5.0	5.9
ALLAIRE	6.0	5.9	5.9	5.0	5.9
GATOR	6.0	6.0	5.9	5.0	5.9
ISI-851 (LINDSAY)	6.0	5.9	5.8	5.2	5.9
KWS-AL-2 (AQUARIUS)	6.2	5.9	5.6	6.1	5.8
TARA	6.3	5.9	5.8	4.8	5.8
GOALIE	5.9	5.9	6.0	5.5	5.8
PSU-333	5.8	5.8	5.9	5.0	5.8
PATRIOT	5.9	5.8	5.8	4.6	5.8
RODEO	5.9	5.8	5.6	5.0	5.8
BIRDIE II	5.8	5.9	5.9	4.8	5.8
BAR LP 410 (BARRAGE)	5.9	5.8	5.8	3.9	5.7
CALIENTE	5.7	5.8	5.9	5.0	5.7
RUNAWAY	5.7	5.8	5.7	5.0	5.7
PSU-222	5.8	5.7	5.7	5.0	5.7
DERBY	5.9	5.7	5.7	4.8	5.7
BELLE	5.9	5.7	5.7	5.6	5.7
246	5.8	5.6	5.8	4.5	5.7
RANGER	5.8	5.7	5.6	5.1	5.7
SR 4031 (NOVA)	5.8	5.6	5.7	4.2	5.6
YORKTOWN II	5.8	5.5	5.5	4.0	5.6
REGAL	5.6	5.6	5.8	5.1	5.6
RIVAL	5.5	5.6	5.7	3.9	5.6
PENNIFINE	5.5	5.6	5.7	4.1	5.5
MOM LP 763 (TORONTO)	5.7	5.6	5.6	3.8	5.5
ACROBAT	5.7	5.6	5.5	4.0	5.5
BAR LP 454 (BARCREDO)	5.6	5.6	5.5	3.4	5.5

TABLE 4.
(continued)

MEAN TURFGRASS QUALITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS FOR EACH YEAR GROWN
IN THE UNITED STATES AND CANADA
1987-1990 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	1987MEAN	1988MEAN	1989MEAN	1990MEAN	1987-90 MEAN
BARRY	5.5	5.5	5.6	4.5	5.5
DIPLOMAT	5.7	5.5	5.5	3.6	5.5
NK 80389	5.6	5.5	5.3	4.1	5.5
DEL 946	5.5	5.5	5.6	4.3	5.5
OVATION	5.5	5.5	5.5	3.7	5.5
RONJA	5.6	5.6	5.5	3.8	5.5
BRENDA	5.6	5.5	5.5	4.4	5.5
VINTAGE 2DF	5.5	5.5	5.5	3.6	5.5
ISI-K2 (DILLION)	5.6	5.5	5.4	3.7	5.4
REGENCY	5.5	5.5	5.4	3.6	5.4
SHERIFF	5.5	5.5	5.4	3.8	5.4
DELRAY	5.3	5.4	5.5	4.5	5.4
MANHATTAN	5.5	5.4	5.2	3.3	5.3
PAVO	5.4	5.3	5.3	2.8	5.3
COWBOY	5.5	5.4	5.3	4.2	5.3
J207	5.3	5.2	5.2	3.2	5.2
J208	5.1	5.2	5.3	3.4	5.2
LINN	3.9	3.9	3.5	1.6	3.8
LSD VALUE	0.2	0.2	0.2	0.2	0.1

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 0.50).

TABLE 5. SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IN1	OH2	MEAN
SR 4100	7.7	8.3	8.0
PENNANT	7.7	7.7	7.7
PICK 233 (DASHER II)	7.3	8.0	7.7
PICK 600 (FIESTA II)	7.3	8.0	7.7
REGENCY	7.3	8.0	7.7
SR 4031 (NOVA)	7.3	8.0	7.7
ACROBAT	6.7	8.3	7.5
DELRAY	7.0	8.0	7.5
OVATION	7.0	8.0	7.5
PST-2HH (CHARGER)	6.3	8.7	7.5
RONJA	7.0	8.0	7.5
BELLE	6.7	8.0	7.3
PALMER	6.7	8.0	7.3
PICK 300 (BLAZER II)	6.3	8.3	7.3
PST-2PM (SATURN)	6.7	8.0	7.3
RIVAL	6.7	8.0	7.3
SR 4000	6.3	8.3	7.3
PST-2H7 (DIMENSION)	6.0	8.7	7.3
J208	6.7	7.7	7.2
MOM LP 763 (TORONTO)	6.7	7.7	7.2
REGAL	6.0	8.3	7.2
BIRDIE II	6.3	8.0	7.2
CALIENTE	6.3	8.0	7.2
COWBOY	6.3	8.0	7.2
DEL 946	6.3	8.0	7.2
GOALIE	6.3	8.0	7.2
PAVO	6.3	8.0	7.2
PICK 715 (EDGE)	6.3	8.0	7.2
PSU-333	6.3	8.0	7.2
RANGER	6.3	8.0	7.2
BAR LP 410 (BARRAGE)	6.0	8.0	7.0
BARRY	6.0	8.0	7.0
BRENDA	6.0	8.0	7.0
CITATION II	5.7	8.3	7.0
ISI-851 (LINDSAY)	6.0	8.0	7.0
KWS-AL-2 (AQUARIUS)	5.3	8.7	7.0
MANHATTAN II	6.0	8.0	7.0
PATRIOT	6.0	8.0	7.0
PENNFINE	6.3	7.7	7.0
PST-2DD	5.0	9.0	7.0
PST-M2E (MAN. II W/E)	6.0	8.0	7.0
RUNAWAY	6.0	8.0	7.0
BAR LP 454 (BARCREDO)	6.0	7.7	6.8
GATOR	5.3	8.3	6.8
J207	5.7	8.0	6.8

SPRING GREENUP RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	IN1	OH2	MEAN
PICK 647 (RIVIERA)	5.7	8.0	6.8
PRELUDE	5.7	8.0	6.8
PST-250 (COMPETITOR)	4.7	9.0	6.8
PSU-222	5.7	8.0	6.8
REPELL	5.7	8.0	6.8
RODEO	5.3	8.3	6.8
SHERIFF	5.7	8.0	6.8
246	5.0	8.7	6.8
DIPLOMAT	5.7	7.7	6.7
ALLAIRE	5.3	8.0	6.7
DERBY	5.3	8.0	6.7
MANHATTAN	5.3	8.0	6.7
PST-259 (COMMANDER)	5.3	8.0	6.7
ISI-K2 (DILLON)	5.0	8.0	6.5
OMEGA II	4.7	8.3	6.5
TARA	5.0	8.0	6.5
VINTAGE-2DF	5.3	7.7	6.5
YORKTOWN II	5.0	8.0	6.5
NK 80389	4.7	8.0	6.3
LINN	4.7	7.0	5.8
LSD VALUE	1.9	0.5	1.0

1/ SPRING GREENUP RATED AT "OH2" IN 1987 AND AT "IN1" IN 1989.

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 6. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/										
NAME	BC1	ID2	MD1	NE1	NJ1	NM1	OH2	SD1	WA3	MEAN
PICK 300 (BLAZER II)	5.3	7.3	7.0	6.7	7.7	7.2	7.1	7.3	8.7	7.1
PST-2DD	5.7	7.3	6.7	6.8	8.0	6.7	7.3	7.0	7.7	7.0
PST-2H7 (DIMENSION)	5.0	8.0	7.2	6.5	7.3	6.5	7.0	7.0	8.3	7.0
RODEO	6.0	7.0	7.0	6.3	7.3	7.2	7.0	7.3	7.7	7.0
PST-250 (COMPETITOR)	5.3	7.0	7.2	6.5	8.0	6.5	7.1	6.9	8.3	7.0
KWS-AL-2 (AQUARIUS)	5.3	7.0	6.8	6.8	7.7	6.0	7.3	7.4	8.3	7.0
REGAL	5.7	8.0	7.2	6.3	8.0	6.2	7.1	7.1	7.0	6.9
ALLAIRE	5.3	6.7	7.7	6.2	8.0	6.3	7.0	7.2	8.0	6.9
PST-2HH (CHARGER)	5.0	7.3	7.2	6.0	7.3	7.0	7.1	7.8	7.7	6.9
PICK 600 (FIESTA II)	5.3	7.0	6.8	6.7	7.3	6.5	7.2	7.1	8.3	6.9
PST-M2E (MAN. II W/E)	5.7	7.0	7.3	6.0	7.0	7.0	7.0	7.6	7.3	6.9
PST-2PM (SATURN)	5.3	7.0	7.3	6.2	7.7	6.5	7.1	7.0	7.7	6.9
SR 4000	5.0	7.3	7.3	6.3	7.0	6.5	7.0	7.1	7.7	6.8
PICK 647 (RIVIERA)	5.3	7.0	7.5	6.0	6.7	6.5	7.0	7.6	7.7	6.8
246	5.0	7.0	7.2	6.2	7.7	6.5	7.3	6.8	7.7	6.8
ISI-851 (LINDSAY)	5.7	6.7	7.0	6.3	7.7	6.5	7.0	7.0	7.3	6.8
MANHATTAN II	5.7	7.0	7.3	6.0	7.0	6.7	6.8	7.0	7.7	6.8
DERBY	6.0	7.0	7.3	5.8	7.3	6.7	7.1	6.6	7.3	6.8
SR 4100	5.3	6.5	7.2	6.0	7.7	6.7	7.1	6.8	7.7	6.8
PENNANT	6.0	6.7	7.0	6.0	7.7	6.3	6.9	6.7	7.3	6.7
PST-259 (COMMANDER)	5.3	7.0	7.0	6.2	7.0	6.3	7.0	7.0	7.7	6.7
PICK 233 (DASHER II)	5.3	7.0	7.2	6.0	7.0	6.7	7.0	7.0	7.0	6.7
RUNAWAY	5.3	6.5	7.5	6.2	7.0	6.0	7.0	7.0	7.7	6.7
CITATION II	5.3	6.7	7.2	6.3	7.3	6.5	7.0	6.4	7.3	6.7
PATRIOT	5.3	7.0	7.0	6.3	7.0	6.0	7.0	7.1	7.3	6.7
PICK 715 (EDGE)	5.3	6.7	6.8	5.8	7.3	6.5	7.0	6.8	7.7	6.7
GOALIE	5.7	6.0	7.0	5.7	8.0	6.8	6.9	6.4	7.3	6.7
PRELUDE	5.0	6.7	7.0	6.0	7.7	6.7	7.0	7.1	6.7	6.6
BELLE	5.3	7.0	7.2	5.8	7.7	6.0	7.0	6.7	7.0	6.6
COWBOY	6.0	6.7	7.2	6.0	7.3	6.2	6.9	7.0	6.0	6.6
PSU-333	5.7	7.3	7.0	5.2	7.0	6.5	7.0	6.2	7.3	6.6
OMEGA II	5.3	7.0	7.0	6.0	6.7	6.2	7.0	7.0	7.0	6.6
BARRY	5.7	6.7	7.2	6.0	5.7	6.7	7.0	6.9	7.3	6.6
TARA	5.0	6.3	7.0	6.5	7.0	6.5	7.0	6.9	6.7	6.5
PALMER	5.7	6.7	6.5	6.0	6.7	6.5	7.0	6.3	7.3	6.5
GATOR	5.3	6.7	6.8	6.0	7.0	6.7	7.0	6.3	6.7	6.5
SR 4031 (NOVA)	5.7	6.3	7.0	5.7	7.3	6.5	7.0	6.7	6.0	6.5
RANGER	5.0	6.3	7.0	5.7	6.7	6.7	6.9	6.9	7.0	6.5
CALIENTE	5.0	6.7	6.8	5.8	7.3	6.3	7.0	6.0	7.0	6.4
ACROBAT	5.3	6.7	6.7	5.8	7.0	6.3	7.0	6.6	6.3	6.4
REPELL	5.3	6.3	6.7	6.0	6.7	6.3	7.0	6.0	7.3	6.4
BAR LP 410 (BARRAGE)	5.3	6.7	6.8	5.7	7.3	6.7	7.0	5.7	6.3	6.4
BIRDIE II	5.3	6.3	7.0	6.2	6.7	6.8	6.9	6.2	6.0	6.4
PSU-222	5.0	6.7	7.2	5.7	7.3	6.2	6.9	5.9	6.3	6.3
PENNFINE	5.7	6.7	6.7	5.7	7.0	6.0	7.0	6.3	6.0	6.3

TABLE 6. GENETIC COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
(continued) 1987-1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN										
NAME	BC1	ID2	MD1	NE1	NJ1	NM1	OH2	SD1	WA3	MEAN
REGENCY	5.7	6.0	7.2	5.3	6.7	6.7	7.0	6.1	6.3	6.3
BRENDA	5.3	6.5	7.0	4.8	7.7	6.2	7.0	6.3	6.0	6.3
ISI-K2 (DILLON)	5.3	6.7	7.0	5.8	6.7	6.3	7.0	6.9	5.0	6.3
NK 80389	5.3	6.3	7.0	5.5	7.0	6.3	6.9	5.6	6.3	6.3
YORKTOWN II	5.3	6.3	7.0	5.5	6.7	6.7	7.0	5.8	6.0	6.3
SHERIFF	5.7	6.0	7.0	5.2	6.7	6.8	7.0	6.3	5.3	6.2
OVATION	5.7	6.3	6.5	4.5	6.7	6.7	7.0	5.7	7.0	6.2
DELRAY	5.0	7.0	7.0	5.5	7.3	6.3	7.0	5.7	5.0	6.2
VINTAGE-2DF	5.0	6.3	7.3	6.0	6.3	6.5	6.8	6.8	4.3	6.2
DIPLOMAT	5.0	6.0	6.8	5.5	6.3	7.0	7.0	6.2	5.3	6.1
RONJA	5.0	5.7	6.5	5.7	6.3	7.0	7.0	6.0	6.0	6.1
MANHATTAN	5.7	6.7	6.7	5.5	5.0	7.3	7.0	6.2	5.0	6.1
DEL 946	5.3	6.5	7.0	5.3	6.3	6.3	7.0	5.9	5.3	6.1
RIVAL	4.7	6.7	6.3	4.8	6.0	6.2	7.0	5.7	6.0	5.9
MOM LP 763 (TORONTO)	5.3	5.7	6.5	5.0	6.7	6.2	6.8	5.8	4.3	5.8
J207	5.3	6.3	6.7	5.3	4.3	6.2	7.0	6.0	5.0	5.8
J208	5.0	6.3	6.8	5.2	3.3	6.2	6.9	5.6	5.0	5.6
PAVO	5.0	6.3	6.5	5.7	3.7	5.7	7.0	5.8	4.7	5.6
LINN	4.7	5.7	6.8	5.3	4.3	6.2	7.2	6.0	3.7	5.5
BAR LP 454 (BARCREDO)	5.0	6.0	6.0	5.0	4.7	6.5	6.8	5.7	4.0	5.5
LSD VALUE	0.8	0.9	0.6	0.6	0.9	1.0	0.2	0.5	1.5	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 7. LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

NAME	ID2	NM1	SD1	MEAN
KWS-AL-2 (AQUARIUS)	7.7	6.3	7.8	7.3
PST-2DD	7.0	6.3	7.6	7.0
J208	6.3	6.7	7.7	6.9
ISI-851 (LINDSAY)	7.0	6.3	7.3	6.9
RODEO	7.3	6.0	7.3	6.9
NK 80389	6.3	6.0	8.0	6.8
PATRIOT	7.0	6.0	7.3	6.8
ALLAIRE	6.7	6.2	7.3	6.7
PST-M2E (MAN. II W/E)	6.7	6.2	7.3	6.7
MANHATTAN II	6.7	6.0	7.3	6.7
PST-250 (COMPETITOR)	6.3	6.3	7.3	6.7
RIVAL	6.3	6.7	7.0	6.7
YORKTOWN II	6.3	6.0	7.6	6.6
RANGER	6.7	6.0	7.0	6.6
BARRY	6.0	6.3	7.3	6.6
TARA	6.0	6.3	7.3	6.6
OVATION	6.3	5.8	7.4	6.5
BAR LP 454 (BARCREDO)	6.0	6.5	7.0	6.5
MOM LP 763 (TORONTO)	6.0	6.5	7.0	6.5
PST-2HH (CHARGER)	6.3	6.2	7.0	6.5
RONJA	6.3	5.8	7.3	6.5
PICK 600 (FIESTA II)	5.7	6.0	7.8	6.5
PICK 300 (BLAZER II)	6.0	6.3	7.1	6.5
ISI-K2 (DILLON)	6.3	6.2	6.9	6.5
DIPLOMAT	6.0	6.3	7.0	6.4
GOALIE	6.0	6.3	7.0	6.4
OMEGA II	6.3	6.0	7.0	6.4
PICK 233 (DASHER II)	6.0	6.3	7.0	6.4
PICK 715 (EDGE)	6.0	6.3	7.0	6.4
SR 4000	6.0	6.3	7.0	6.4
CITATION II	6.3	6.2	6.8	6.4
SR 4100	6.0	6.3	6.9	6.4
VINTAGE-2DF	6.3	6.3	6.6	6.4
BAR LP 410 (BARRAGE)	6.0	6.2	7.0	6.4
PENNANT	5.7	6.5	7.0	6.4
PICK 647 (RIVIERA)	6.3	5.8	7.0	6.4
PRELUDE	6.3	6.0	6.8	6.4
PSU-333	6.0	6.0	7.1	6.4
REGENCY	6.3	5.8	6.9	6.4
BELLE	6.0	5.8	7.2	6.4
ACROBAT	5.7	6.3	7.0	6.3
BRENDA	6.0	6.0	7.0	6.3
PALMER	6.3	6.0	6.7	6.3
PST-259 (COMMANDER)	6.0	6.3	6.7	6.3
PSU-222	6.0	6.0	7.0	6.3

LEAF TEXTURE RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	ID2	NM1	SD1	MEAN
RUNAWAY	6.0	6.0	7.0	6.3
J207	5.7	6.5	6.8	6.3
PST-2H7 (DIMENSION)	6.0	6.5	6.4	6.3
CALIENTE	6.0	6.0	6.9	6.3
REPELL	5.7	6.0	7.2	6.3
SHERIFF	5.7	6.2	7.0	6.3
BIRDIE II	6.0	6.2	6.6	6.2
MANHATTAN	5.7	6.5	6.6	6.2
SR 4031 (NOVA)	6.0	6.2	6.6	6.2
DEL 946	5.5	6.2	7.0	6.2
246	5.7	6.2	6.8	6.2
DERBY	5.5	6.0	7.0	6.2
PAVO	5.3	6.5	6.7	6.2
PST-2PM (SATURN)	5.7	6.0	6.8	6.1
GATOR	6.0	5.8	6.6	6.1
PENNFINE	5.7	5.7	7.0	6.1
REGAL	6.0	6.0	6.3	6.1
COWBOY	6.0	5.7	6.4	6.0
DELRAY	5.7	5.5	6.8	6.0
LINN	4.7	6.2	5.7	5.5
LSD VALUE	0.9	1.9	0.4	0.7

1/ LEAF TEXTURE RATED AT "NM1" IN 1987 & 1988, AT "SD1" IN 1987 & 1989 AND AT "ID2" IN 1990.

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 8. SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/						
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 (SATURN)	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 (BARRAGE)	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 (EDGE)	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 (RIVIERA)	3.0	7.0	6.7	6.0	6.3	5.8
SR 4031 (NOVA)	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

SEEDLING VIGOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR

NAME	ID2	IN1	KS2	NM1	WA3	MEAN
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
PST-2HH (CHARGER)	4.0	7.0	6.3	6.3	4.0	5.5
BAR LP 454 (BARCREDO)	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 (TORONTO)	4.0	6.7	6.3	6.3	4.0	5.5
PST-2H7 (DIMENSION)	3.3	7.0	6.7	7.0	3.3	5.5
PST-M2E (MAN. II W/E)	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/ SEEDLING VIGOR RATED AT ALL LOCATIONS IN 1987 ONLY.

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 9. SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/				
NAME	IN1	NM1	SD1	MEAN
BAR LP 454 (BARCREDO)	7.7	7.0	6.8	7.2
SR 4000	7.0	7.0	7.0	7.0
BAR LP 410 (BARRAGE)	7.0	6.8	6.7	6.8
NK 80389	7.7	6.5	6.3	6.8
PST-250 (COMPETITOR)	6.3	7.3	6.8	6.8
BRENDA	6.7	6.7	7.0	6.8
PAVO	6.7	7.0	6.7	6.8
PATRIOT	7.0	6.8	6.5	6.8
ACROBAT	6.0	7.5	6.7	6.7
MANHATTAN	7.0	6.7	6.5	6.7
YORKTOWN II	6.7	6.5	7.0	6.7
BELLE	6.3	7.0	6.8	6.7
J208	7.3	6.5	6.3	6.7
J207	6.3	6.8	6.8	6.7
MANHATTAN II	7.0	7.2	5.8	6.7
PST-2PM (SATURN)	7.0	6.7	6.3	6.7
PSU-222	6.0	7.3	6.7	6.7
RIVAL	6.7	7.2	6.2	6.7
CITATION II	6.7	7.0	6.2	6.6
BARRY	7.0	6.5	6.3	6.6
MOM LP 763 (TORONTO)	6.7	6.3	6.8	6.6
PICK 647 (RIVIERA)	6.7	6.8	6.3	6.6
RONJA	7.3	6.7	5.8	6.6
RUNAWAY	6.3	6.8	6.7	6.6
TARA	6.7	6.8	6.3	6.6
ISI-851 (LINDSAY)	7.0	6.5	6.2	6.6
PENNFINE	6.0	6.7	7.0	6.6
PSU-333	6.0	7.0	6.7	6.6
ALLAIRE	7.3	6.8	5.5	6.6
RANGER	6.0	6.8	6.8	6.6
DERBY	6.3	6.7	6.5	6.5
GATOR	6.7	6.5	6.3	6.5
OVATION	6.7	6.2	6.7	6.5
PICK 300 (BLAZER II)	6.7	6.5	6.3	6.5
PST-M2E (MAN. II W/E)	6.7	7.0	5.8	6.5
REGENCY	6.3	6.2	7.0	6.5
CALIENTE	6.0	6.5	6.8	6.4
DIPLOMAT	6.0	6.3	7.0	6.4
PST-259 (COMMANDER)	6.3	7.0	6.0	6.4
PST-2HH (CHARGER)	7.0	6.5	5.8	6.4
DEL 946	6.0	6.5	6.7	6.4
DELRAY	6.3	6.2	6.7	6.4
GOALIE	5.7	6.5	7.0	6.4
OMEGA II	6.7	7.2	5.3	6.4
PENNANT	6.0	7.0	6.2	6.4

SPRING DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	IN1	NM1	SD1	MEAN
PST-2H7 (DIMENSION)	6.7	6.5	6.0	6.4
REPELL	7.0	6.5	5.7	6.4
PICK 600 (FIESTA II)	6.3	6.8	6.0	6.4
PRELUDE	5.7	6.5	6.8	6.3
PST-2DD	7.3	6.3	5.3	6.3
SHERIFF	6.0	6.5	6.5	6.3
VINTAGE-2DF	6.0	7.0	6.0	6.3
BIRDIE II	5.7	6.7	6.5	6.3
246	6.3	6.5	6.0	6.3
KWS-AL-2 (AQUARIUS)	7.0	6.0	5.8	6.3
ISI-K2 (DILLON)	6.3	6.7	5.7	6.2
PALMER	5.7	6.8	6.2	6.2
PICK 233 (DASHER II)	6.3	6.5	5.8	6.2
REGAL	6.3	6.5	5.7	6.2
PICK 715 (EDGE)	6.3	6.5	5.5	6.1
RODEO	7.0	6.0	5.3	6.1
SR 4031 (NOVA)	6.0	6.5	5.8	6.1
SR 4100	6.0	6.3	6.0	6.1
COWBOY	6.0	5.8	5.3	5.7
LINN	5.3	6.3	4.0	5.2
LSD VALUE	1.0	1.1	0.5	0.5

1/ SPRING DENSITY RATED AT "IN1" IN 1987, AT "NM1" IN 1987
& 1988 AND AT "SD1" IN 1989 & 1990

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 10. SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/					
NAME	ID2	IN1	NM1	SD1	MEAN
PICK 600 (FIESTA II)	7.3	7.0	7.7	7.2	7.3
PST-2DD	8.0	7.0	7.0	7.2	7.3
PICK 300 (BLAZER II)	7.3	7.0	7.2	7.5	7.3
KWS-AL-2 (AQUARIUS)	7.0	7.0	6.7	8.0	7.2
NK 80389	7.0	6.7	7.3	7.7	7.2
SR 4000	6.7	6.7	7.2	8.0	7.1
PST-250 (COMPETITOR)	6.7	6.7	7.5	7.5	7.1
SR 4100	7.0	7.0	7.2	7.0	7.0
BAR LP 454 (BARCREDO)	6.0	6.3	7.2	8.7	7.0
PALMER	6.3	7.0	7.5	7.3	7.0
PRELUDE	6.3	6.7	7.3	7.8	7.0
BRENDA	6.0	7.0	7.2	7.8	7.0
GOALIE	6.0	7.0	7.2	7.8	7.0
PICK 233 (DASHER II)	7.0	7.0	7.0	7.0	7.0
PST-2HH (CHARGER)	7.0	6.7	6.8	7.5	7.0
PSU-222	6.7	5.7	7.5	8.2	7.0
YORKTOWN II	6.3	6.7	7.5	7.5	7.0
PICK 715 (EDGE)	6.3	7.0	6.8	7.8	7.0
PSU-333	6.7	6.3	7.3	7.5	7.0
BAR LP 410 (BARRAGE)	7.0	6.0	7.0	7.7	6.9
BIRDIE II	6.7	6.7	7.3	7.0	6.9
PST-259 (COMMANDER)	6.7	6.3	7.0	7.7	6.9
PST-M2E (MAN. II W/E)	7.0	6.7	7.3	6.7	6.9
OMEGA II	7.3	6.3	7.2	6.7	6.9
PENNFINE	6.0	6.3	7.2	8.0	6.9
RANGER	6.7	6.3	7.2	7.3	6.9
BELLE	6.7	5.7	7.3	7.7	6.8
GATOR	6.3	6.3	7.2	7.5	6.8
PATRIOT	6.7	6.3	7.3	7.0	6.8
PICK 647 (RIVIERA)	7.0	6.3	6.8	7.2	6.8
RIVAL	6.7	6.3	7.0	7.3	6.8
TARA	6.7	7.0	6.3	7.3	6.8
DIPLOMAT	7.0	5.3	7.2	7.7	6.8
MANHATTAN II	6.7	6.7	7.2	6.7	6.8
OVATION	6.3	5.7	7.2	8.0	6.8
REPELL	6.3	6.3	7.2	7.3	6.8
DELRAY	5.7	7.0	7.0	7.3	6.8
ALLAIRE	7.0	6.3	7.3	6.3	6.8
CALIENTE	6.3	7.0	6.8	6.8	6.8
DEL 946	6.0	6.3	7.3	7.2	6.7
ISI-851 (LINDSAY)	6.7	6.0	6.8	7.3	6.7
MOM LP 763 (TORONTO)	5.3	6.3	7.5	7.7	6.7
REGAL	6.5	6.7	7.3	6.3	6.7
RUNAWAY	6.0	6.0	7.3	7.5	6.7
VINTAGE-2DF	6.0	6.7	7.3	6.7	6.7

SUMMER DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	ID2	IN1	NM1	SD1	MEAN
DERBY	6.0	6.0	7.3	7.3	6.7
PST-2PM (SATURN)	6.3	6.3	7.2	6.8	6.7
ACROBAT	5.7	6.3	7.5	7.0	6.6
PST-2H7 (DIMENSION)	6.7	6.3	6.5	7.0	6.6
RONJA	6.7	5.7	7.3	6.7	6.6
246	6.3	6.0	7.2	6.8	6.6
MANHATTAN	7.0	5.0	7.3	7.0	6.6
PENNANT	6.7	6.0	7.3	6.3	6.6
RODEO	6.3	6.3	7.0	6.7	6.6
SR 4031 (NOVA)	6.3	6.7	7.2	6.0	6.5
CITATION II	5.7	6.3	7.3	6.8	6.5
ISI-K2 (DILLON)	6.3	5.3	7.2	7.0	6.5
BARRY	6.7	5.0	6.8	6.7	6.3
COWBOY	6.3	6.0	7.2	5.7	6.3
J207	6.3	4.3	7.3	7.2	6.3
SHERIFF	5.7	6.0	6.8	6.7	6.3
J208	6.3	4.7	7.0	7.0	6.3
PAVO	5.3	5.0	7.3	7.0	6.2
REGENCY	5.7	5.7	6.2	7.0	6.1
LINN	4.0	4.0	7.0	4.3	4.8
LSD VALUE	1.1	1.1	1.3	0.6	0.6

1/ SUMMER DENSITY RATED AT "ID2" IN 1990, AT "IN1" IN 1987,
AT "NM1" IN 1987 & 1988 AND AT "SD1" IN 1989.

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 11. FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/				
NAME	ID2	MO1	NM1	MEAN
PST-2PM (SATURN)	8.3	8.0	7.0	7.8
PST-M2E (MAN. II W/E)	8.0	7.7	7.3	7.7
PST-2HH (CHARGER)	8.0	8.0	6.8	7.6
PICK 600 (FIESTA II)	8.0	7.7	7.0	7.6
SR 4000	7.3	8.0	7.3	7.6
PST-2H7 (DIMENSION)	8.0	7.7	6.8	7.5
PICK 647 (RIVIERA)	7.7	7.7	7.0	7.4
PST-250 (COMPETITOR)	7.7	7.7	7.0	7.4
246	8.0	7.7	6.5	7.4
TARA	8.3	7.3	6.5	7.4
KWS-AL-2 (AQUARIUS)	8.7	7.0	6.5	7.4
CITATION II	7.3	7.3	7.3	7.3
PST-259 (COMMANDER)	7.0	8.0	7.0	7.3
PALMER	7.0	7.7	7.2	7.3
OMEGA II	7.3	7.7	6.8	7.3
PICK 300 (BLAZER II)	8.0	7.3	6.5	7.3
GOALIE	7.3	7.7	6.7	7.2
PICK 233 (DASHER II)	7.7	7.7	6.3	7.2
RIVAL	7.3	7.7	6.7	7.2
ALLAIRE	8.0	7.0	6.5	7.2
GATOR	7.3	7.3	6.8	7.2
OVATION	7.0	7.7	6.8	7.2
PENNANT	7.0	7.7	6.7	7.1
BAR LP 454 (BARCREDO)	7.0	7.3	7.0	7.1
DIPLOMAT	7.3	7.3	6.7	7.1
PST-2DD	9.0	6.3	6.0	7.1
SR 4100	7.3	7.3	6.7	7.1
RUNAWAY	6.7	7.3	7.2	7.1
DEL 946	7.0	7.3	6.8	7.1
PRELUDE	7.3	8.0	5.8	7.1
RANGER	7.0	7.3	6.8	7.1
YORKTOWN II	7.3	7.0	6.8	7.1
DERBY	7.3	7.0	6.7	7.0
ISI-851 (LINDSAY)	7.0	7.3	6.7	7.0
MANHATTAN II	7.7	6.7	6.7	7.0
PICK 715 (EDGE)	6.7	8.0	6.3	7.0
PSU-222	7.0	7.0	7.0	7.0
REGENCY	7.0	7.3	6.7	7.0
BIRDIE II	6.7	7.7	6.5	6.9
RONJA	7.3	7.0	6.5	6.9
SR 4031 (NOVA)	7.0	7.0	6.7	6.9
MOM LP 763 (TORONTO)	7.0	7.3	6.3	6.9
BELLE	6.3	7.3	6.8	6.8
REPELL	7.0	7.3	6.2	6.8
RODEO	7.3	7.0	6.2	6.8

FALL DENSITY RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	ID2	MO1	NM1	MEAN
ACROBAT	6.3	7.3	6.7	6.8
BARRY	7.0	7.0	6.3	6.8
REGAL	6.3	7.3	6.5	6.7
COWBOY	6.3	7.3	6.3	6.7
PATRIOT	7.0	6.7	6.3	6.7
PSU-333	6.7	7.0	6.3	6.7
SHERIFF	6.7	7.0	6.3	6.7
NK 80389	7.0	6.3	6.5	6.6
PENNFINE	7.0	7.3	5.5	6.6
BAR LP 410 (BARRAGE)	6.3	7.3	6.0	6.6
VINTAGE-2DF	6.0	7.3	6.3	6.6
BRENDA	6.0	7.3	6.2	6.5
CALIENTE	6.7	7.0	5.8	6.5
DELRAY	6.7	6.7	6.0	6.4
MANHATTAN	6.3	6.3	6.7	6.4
PAVO	7.0	5.7	6.5	6.4
J207	5.7	6.3	6.8	6.3
J208	6.3	6.3	6.2	6.3
ISI-K2 (DILLON)	5.3	6.7	6.2	6.1
LINN	4.0	4.7	6.5	5.1
LSD VALUE	1.0	0.9	1.8	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).

2/ FALL DENSITY RATED AT "ID2" AND "MO1" IN 1988 AND AT "NM1"
IN 1987 & 1988.

TABLE 12. PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MO1	NE1	NM1	MEAN
PAVO	81.3	80.0	89.2	83.5
DIPLOMAT	89.3	70.0	88.5	82.6
PICK 600 (FIESTA II)	88.8	70.0	88.5	82.4
ISI-K2 (DILLON)	88.8	70.0	85.2	81.3
CALIENTE	82.5	73.3	86.2	80.7
ISI-851 (LINDSAY)	84.7	70.0	86.2	80.3
RANGER	89.2	66.7	84.7	80.2
PENNANT	86.8	66.7	86.3	79.9
PSU-333	84.7	66.7	88.3	79.9
MANHATTAN	81.8	70.0	87.7	79.8
PST-250 (COMPETITOR)	91.7	63.3	84.0	79.7
BAR LP 454 (BARCREDO)	79.7	73.3	85.0	79.3
J207	82.2	70.0	85.7	79.3
ACROBAT	86.5	63.3	87.8	79.2
PALMER	83.3	66.7	87.7	79.2
PSU-222	80.8	70.0	86.3	79.1
SR 4000	87.3	63.3	85.8	78.8
REPELL	85.7	70.0	79.7	78.4
BELLE	81.7	66.7	86.7	78.3
PST-2PM (SATURN)	86.0	66.7	82.2	78.3
VINTAGE-2DF	88.5	60.0	86.0	78.2
PICK 300 (BIAZER II)	87.0	63.3	83.5	77.9
RODEO	83.8	66.7	83.3	77.9
RUNAWAY	84.3	63.3	85.3	77.7
OVATION	86.3	66.7	79.7	77.6
OMEGA II	80.5	63.3	88.0	77.3
PICK 233 (DASHER II)	87.2	60.0	84.7	77.3
GATOR	86.0	70.0	75.8	77.3
PST-259 (COMMANDER)	83.8	63.3	84.3	77.2
BARRY	77.5	70.0	83.5	77.0
RONJA	81.7	70.0	79.2	76.9
MANHATTAN II	81.3	63.3	86.0	76.9
PST-M2E (MAN. II W/E)	89.2	60.0	81.3	76.8
TARA	80.8	66.7	83.0	76.8
ALLAIRE	83.3	63.3	83.5	76.7
PENNFINE	84.7	63.3	81.8	76.6
PICK 715 (EDGE)	89.7	56.7	83.3	76.6
J208	76.3	70.0	83.2	76.5
PST-2HH (CHARGER)	83.5	63.3	82.7	76.5
PATRIOT	84.2	63.3	80.7	76.1
PICK 647 (RIVIERA)	83.3	56.7	87.8	75.9
GOALIE	85.0	60.0	82.3	75.8
MOM LP 763 (TORONTO)	85.5	60.0	81.8	75.8
RIVAL	83.0	60.0	84.0	75.7
BIRDIE II	84.2	60.0	80.8	75.0

PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	MO1	NE1	NM1	MEAN
DERBY	85.0	56.7	82.5	74.7
BAR LP 410 (BARRAGE)	84.7	56.7	81.3	74.2
PRELUDE	89.7	50.0	81.8	73.8
PST-2H7 (DIMENSION)	85.8	53.3	81.8	73.7
YORKTOWN II	78.5	56.7	85.5	73.6
NK 80389	79.2	66.7	74.7	73.5
REGENCY	75.8	66.7	78.0	73.5
PST-2DD	78.0	56.7	83.3	72.7
DEL 946	82.2	50.0	85.2	72.4
SR 4100	87.2	50.0	78.2	71.8
BRENDA	74.7	53.3	86.7	71.6
246	85.0	53.3	75.8	71.4
SHERIFF	79.7	53.3	78.0	70.3
DELRAY	85.5	46.7	77.7	69.9
SR 4031 (NOVA)	84.3	46.7	78.3	69.8
KWS-AL-2 (AQUARIUS)	86.5	53.3	68.0	69.3
CITATION II	78.8	50.0	78.5	69.1
REGAL	77.5	43.3	79.7	66.8
COWBOY	82.5	33.3	83.0	66.3
LINN	54.2	26.7	76.2	52.3
LSD VALUE	18.6	16.8	13.3	9.8

1/ PERCENT LIVING GROUND COVER (SPRING) RATED AT "MO1" IN 1987 & 1990, AT "NE1" IN 1988 AND AT "NM1" IN 1987 & 1988.

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 13. PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/					
NAME	ID2	IN1	MO1	NM1	MEAN
PENNANT	99.0	97.7	78.6	92.0	91.8
SR 4100	99.0	96.3	79.2	91.8	91.6
PST-2PM (SATURN)	98.7	99.0	75.2	90.5	90.8
CALIENTE	99.0	97.7	78.2	88.0	90.7
ACROBAT	98.3	96.3	75.3	92.2	90.5
PICK 600 (FIESTA II)	99.0	96.3	74.2	92.2	90.4
PICK 233 (DASHER II)	99.0	99.0	74.8	88.0	90.2
RANGER	99.0	96.0	74.2	91.5	90.2
PICK 715 (EDGE)	96.3	96.0	80.0	88.0	90.1
PSU-333	99.0	96.3	75.0	89.5	90.0
BIRDIE II	99.0	96.3	73.2	91.0	89.9
PST-259 (COMMANDER)	98.7	97.7	73.1	90.0	89.9
PALMER	98.7	97.7	73.2	89.8	89.8
SR 4000	98.7	97.7	70.8	92.2	89.8
DEL 946	98.5	96.3	72.4	91.5	89.7
GOALIE	99.0	96.3	77.1	86.3	89.7
MOM LP 763 (TORONTO)	99.0	96.3	72.7	90.7	89.7
PATRIOT	99.0	91.7	76.2	90.8	89.4
PST-M2E (MAN. II W/E)	99.0	96.3	70.8	91.2	89.3
CITATION II	96.0	96.3	72.9	92.0	89.3
REPELL	99.0	95.0	71.2	91.8	89.3
PST-2H7 (DIMENSION)	99.0	99.0	72.3	86.7	89.3
GATOR	99.0	95.0	72.0	90.3	89.1
MANHATTAN II	99.0	96.3	71.1	89.5	89.0
REGAL	98.5	93.3	74.4	89.7	89.0
PST-250 (COMPETITOR)	99.0	97.7	66.7	92.3	88.9
246	98.7	96.0	71.1	89.8	88.9
SHERIFF	98.3	97.7	71.1	87.5	88.7
DELRAY	98.7	99.0	70.2	86.7	88.6
RUNAWAY	99.0	95.0	67.2	92.5	88.4
YORKTOWN II	98.7	95.0	69.1	90.8	88.4
DERBY	99.0	94.3	69.6	90.7	88.4
RIVAL	99.0	96.3	68.7	89.3	88.3
OMEGA II	99.0	91.7	72.1	90.2	88.2
PICK 647 (RIVIERA)	97.7	95.0	73.1	86.8	88.2
DIPLOMAT	99.0	90.0	73.4	90.0	88.1
OVATION	98.7	90.0	74.4	89.3	88.1
PRELUDE	98.7	96.0	67.7	89.5	88.0
RODEO	99.0	93.0	72.1	87.7	87.9
VINTAGE-2DF	98.3	96.3	68.2	88.7	87.9
BAR LP 410 (BARRAGE)	97.7	94.7	70.9	88.3	87.9
SR 4031 (NOVA)	96.0	95.0	70.4	89.7	87.8
ISI-851 (LINDSAY)	98.7	96.3	69.3	86.7	87.8
PICK 300 (BLAZER II)	99.0	91.7	73.0	87.2	87.7
BRENDA	99.0	90.0	68.0	93.8	87.7

PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	ID2	IN1	MO1	NM1	MEAN
PENNFINE	99.0	93.3	70.9	87.2	87.6
PST-2HH (CHARGER)	95.7	95.0	72.7	85.7	87.3
ALLAIRE	99.0	91.3	67.6	90.8	87.2
NK 80389	99.0	96.3	61.1	92.0	87.1
BELLE	99.0	91.7	65.6	91.2	86.8
PSU-222	99.0	93.3	63.6	90.8	86.7
COWBOY	99.0	96.3	63.0	87.5	86.5
PAVO	99.0	90.0	64.8	92.0	86.4
TARA	99.0	99.0	63.7	84.0	86.4
ISI-K2 (DILLON)	99.0	86.7	69.0	90.8	86.4
MANHATTAN	99.0	93.0	63.0	90.2	86.3
RONJA	99.0	93.0	64.9	88.0	86.2
BAR LP 454 (BARCREDO)	99.0	94.7	64.3	86.7	86.2
BARRY	99.0	90.0	65.9	89.5	86.1
KWS-AL-2 (AQUARIUS)	98.7	96.3	60.0	86.7	85.4
REGENCY	99.0	93.3	71.7	77.7	85.4
PST-2DD	99.0	94.7	57.3	89.2	85.0
J207	97.7	81.7	60.2	91.3	82.7
J208	99.0	80.0	58.6	88.3	81.5
LINN	99.0	71.7	45.0	88.0	75.9
LSL VALUE	2.2	6.9	20.3	8.8	9.6

1/ PERCENT LIVING GROUND COVER (SUMMER) RATED AT "ID2" IN 1990,
AT "IN1" IN 1987, AT "MO1" IN 1988 & 1990 AND AT "NM1" IN
1987 & 1988.

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 14. PERCENT LIVING GROUND COVER (FALL)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/							
NAME	ID2	MA1	MO1	NM1	UB1	VA1	MEAN
SR 4000	56.7	66.7	94.7	89.0	99.0	61.7	77.9
PENNANT	58.3	65.0	95.3	78.7	99.0	61.7	76.3
PALMER	56.7	63.3	93.0	77.7	97.7	68.3	76.1
OMEGA II	55.0	63.3	94.0	83.0	96.3	56.7	74.7
PST-2PM (SATURN)	51.7	58.3	96.0	87.7	96.0	58.3	74.7
PICK 647 (RIVIERA)	41.7	55.0	95.7	87.3	99.0	66.7	74.2
PICK 600 (FIESTA II)	50.0	66.7	92.3	80.7	94.3	60.0	74.0
GATOR	51.7	60.0	92.3	80.3	94.7	63.3	73.7
MANHATTAN II	51.7	66.7	90.7	81.3	94.7	56.7	73.6
PST-259 (COMMANDER)	46.7	61.7	95.7	81.5	94.3	61.7	73.6
DIPLOMAT	45.0	73.3	95.3	79.3	91.3	56.7	73.5
RIVAL	50.0	61.7	94.7	86.7	94.7	53.3	73.5
J207	48.3	68.3	90.7	87.7	93.0	50.0	73.0
ALLAIRE	58.3	63.3	93.3	85.7	88.0	48.3	72.8
VINTAGE-2DF	50.0	66.7	93.0	74.7	99.0	53.3	72.8
SR 4100	50.0	61.7	94.0	79.7	99.0	51.7	72.7
PICK 233 (DASHER II)	45.0	58.3	95.3	71.3	97.7	66.7	72.4
RONJA	56.7	66.7	92.7	68.8	92.7	56.7	72.4
REBELL	48.3	68.3	93.3	74.7	96.0	53.3	72.3
PST-250 (COMPETITOR)	48.3	61.7	94.3	79.3	94.7	55.0	72.2
MOM LP 763 (TORONTO)	41.7	65.0	94.0	83.3	96.3	51.7	72.0
GOALIE	41.7	56.7	94.7	80.5	99.0	58.3	71.8
PAVO	46.7	71.7	91.3	76.5	88.0	56.7	71.8
PSU-222	53.3	63.3	92.7	84.8	80.0	56.7	71.8
PATRIOT	45.0	60.0	92.0	80.7	96.3	56.7	71.8
PST-2H7 (DIMENSION)	48.3	60.0	94.7	86.0	92.7	48.3	71.7
BIRDIE II	40.0	70.0	95.3	76.7	99.0	48.3	71.6
DEL 946	40.0	71.7	93.0	74.7	94.3	55.0	71.4
ISI-K2 (DILLON)	51.7	76.7	94.0	79.5	86.0	40.0	71.3
CALIENTE	45.0	58.3	93.7	73.0	99.0	58.3	71.2
BAR LP 454 (BARCREDO)	41.7	56.7	92.7	84.3	99.0	51.7	71.0
RUNAWAY	40.0	70.0	93.0	83.0	83.3	56.7	71.0
PST-2HH (CHARGER)	43.3	50.0	95.3	83.8	93.0	60.0	70.9
PST-M2E (MAN. II W/E)	45.0	56.7	92.3	82.5	99.0	50.0	70.9
PICK 715 (EDGE)	50.0	51.7	95.3	73.0	99.0	55.0	70.7
OVATION	40.0	66.7	94.7	75.0	96.3	50.0	70.4
KWS-AL-2 (AQUARIUS)	53.3	53.3	90.0	80.5	94.7	50.0	70.3
YORKTOWN II	43.3	60.0	92.7	74.2	91.7	60.0	70.3
DERBY	43.3	60.0	93.3	73.5	89.7	61.7	70.3
BAR LP 410 (BARRAGE)	46.7	56.7	94.7	68.8	96.0	56.7	69.9
REGAL	40.0	53.3	94.7	75.8	99.0	56.7	69.9
246	45.0	51.7	92.3	76.0	96.0	58.3	69.9
ACROBAT	50.0	60.0	94.0	80.5	84.7	50.0	69.9
CITATION II	36.7	55.0	95.7	83.5	99.0	48.3	69.7
TARA	41.7	56.7	93.3	79.3	94.7	51.7	69.6

PERCENT LIVING GROUND COVER (FALL)
RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	ID2	MA1	MO1	NM1	UB1	VA1	MEAN
REGENCY	43.3	51.7	94.0	79.7	85.0	63.3	69.5
PSU-333	48.3	58.3	93.7	71.3	94.7	50.0	69.4
ISI-851 (LINDSAY)	45.0	56.7	92.3	72.2	93.0	56.7	69.3
PRELUDE	40.0	53.3	94.7	71.5	93.0	63.3	69.3
BARRY	41.7	63.3	93.7	73.8	94.7	48.3	69.3
BELLE	43.3	55.0	94.3	80.8	86.7	53.3	68.9
RODEO	53.3	76.7	90.7	73.3	75.0	43.3	68.7
J208	43.3	65.0	92.0	77.2	88.3	45.0	68.5
PST-2DD	45.0	56.7	91.3	69.7	93.0	51.7	67.9
SR 4031 (NOVA)	36.7	50.0	91.3	79.7	96.3	53.3	67.9
PENNFINE	38.3	58.3	93.3	69.3	99.0	48.3	67.8
RANGER	28.3	58.3	94.7	83.3	83.3	56.7	67.4
NK 80389	46.7	65.0	91.0	76.7	76.7	48.3	67.4
MANHATTAN	50.0	61.7	92.7	77.0	78.3	43.3	67.2
BRENDA	40.0	58.3	93.0	68.0	84.7	53.3	66.2
SHERIFF	41.7	50.0	94.0	69.5	88.3	53.3	66.1
PICK 300 (BLAZER II)	43.3	53.3	94.3	74.7	73.0	50.0	64.8
DEIRAY	28.3	45.0	94.0	65.0	89.7	51.7	62.3
COWBOY	40.0	41.7	92.0	67.7	85.0	43.3	61.6
LINN	35.0	40.0	83.3	77.2	83.3	40.0	59.8
LSD VALUE	15.4	16.9	3.6	23.9	13.6	12.4	8.4

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 15. WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

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 (MAN. II W/E)	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 (RIVIERA)	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 (EDGE)	5.7	6.0	5.8
PST-2H7 (DIMENSION)	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 (SATURN)	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 (BARCREDO)	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

WINTER COLOR RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

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

NAME	KS2	NM1	MEAN
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 (TORONTO)	5.0	6.0	5.5
PRELUDE	5.3	5.7	5.5
SR 4031 (NOVA)	5.0	6.0	5.5
BAR LP 410 (BARRAGE)	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 (CHARGER)	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/ WINTER COLOR RATED AT BOTH LOCATIONS IN 1987 ONLY.

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 16. FUSARIUM PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

FUSARIUM PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	ID2	OH2	MEAN
PST-2H7 (DIMENSION)	6.7	9.0	7.8
ACROBAT	6.3	9.0	7.7
BAR LP 410 (BARRAGE)	6.3	9.0	7.7
PAVO	6.3	9.0	7.7
BAR LP 454 (BARCREDO)	7.0	8.0	7.5
J207	6.0	9.0	7.5
PST-2PM (SATURN)	6.3	8.7	7.5
RANGER	6.3	8.7	7.5
RUNAWAY	6.0	9.0	7.5
REGENCY	5.7	9.0	7.3
CALIENTE	5.7	8.7	7.2
GOALIE	5.3	9.0	7.2
PENNFINE	5.3	9.0	7.2
PICK 300 (BLAZER II)	5.3	9.0	7.2
RONJA	5.3	9.0	7.2
SR 4031 (NOVA)	5.7	8.7	7.2
BRENDA	5.7	8.3	7.0
DEL 946	5.3	8.7	7.0
MOM LP 763 (TORONTO)	5.0	9.0	7.0
OVATION	5.7	8.3	7.0
PATRIOT	5.7	8.3	7.0
PENNANT	5.0	9.0	7.0
PST-2DD	6.3	7.7	7.0
TARA	5.0	9.0	7.0
OMEGA II	6.0	7.7	6.8
J208	6.3	7.3	6.8
BIRDIE II	5.7	7.7	6.7
PST-2HH (CHARGER)	5.0	8.3	6.7
PICK 647 (RIVIERA)	4.7	8.7	6.7
SR 4100	4.7	8.7	6.7
BELLE	4.3	8.7	6.5
CITATION II	4.7	8.3	6.5
COWBOY	4.7	8.3	6.5
GATOR	4.0	9.0	6.5
ISI-851 (LINDSAY)	4.0	9.0	6.5
MANHATTAN II	4.3	8.7	6.5
PALMER	4.7	8.3	6.5
PICK 233 (DASHER II)	4.7	8.3	6.5
PICK 715 (EDGE)	4.3	8.7	6.5
REGAL	4.7	8.3	6.5
RIVAL	7.7	5.3	6.5
SHERIFF	4.7	8.3	6.5
YORKTOWN II	4.0	9.0	6.5
KWS-AL-2 (AQUARIUS)	4.7	8.0	6.3
PICK 600 (FIESTA II)	4.3	8.3	6.3

FUSARIUM PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

FUSARIUM PATCH RATINGS 1-9; 9=NO DISEASE

NAME	ID2	OH2	MEAN
DERBY	3.7	9.0	6.3
MANHATTAN	4.0	8.7	6.3
NK 80389	4.0	8.7	6.3
SR 4000	5.3	7.3	6.3
DIPLOMAT	4.0	8.3	6.2
PRELUDE	3.3	9.0	6.2
PST-250 (COMPETITOR)	3.3	9.0	6.2
PSU-333	3.3	9.0	6.2
DELRAY	3.7	8.7	6.2
ISI-K2 (DILLON)	3.7	8.3	6.0
PST-259 (COMMANDER)	4.0	8.0	6.0
RODEO	4.0	8.0	6.0
BARRY	4.3	7.3	5.8
246	3.0	8.3	5.7
PSU-222	2.3	9.0	5.7
REPELL	2.3	9.0	5.7
VINTAGE-2DF	2.3	9.0	5.7
ALLAIRE	2.7	8.7	5.7
PST-M2E (MAN. II W/E)	2.0	8.0	5.0
LINN	5.0	2.7	3.8
LSD VALUE	2.5	1.1	1.4

- 1/ FUSARIUM PATCH RATED AT "ID2" IN 1988 AND AT "OH2" IN 1987.
- 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 17. MELTING OUT IN SPRING RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

MELTING OUT RATINGS 1-9; 9=NO DISEASE 2/

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 (BARCREDO)	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
BELIE	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 (TORONTO)	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 (RIVIERA)	5.3	5.3
PICK 715 (EDGE)	5.3	5.3
PST-2DD	5.3	5.3
PST-M2E (MAN. II W/E)	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 (BARRAGE)	5.0	5.0
BARRY	5.0	5.0

MELTING OUT IN SPRING RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

MELTING OUT RATINGS 1-9; 9=NO DISEASE

NAME	NM1	MEAN
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
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 (DIMENSION)	5.0	5.0
PST-2HH (CHARGER)	5.0	5.0
PST-2PM (SATURN)	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 (NOVA)	5.0	5.0
LSD VALUE	0.9	0.9

1/ MELTING OUT IN SPRING RATED IN 1987 ONLY.

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. LEAFSPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE 2/			
NAME	NJ1	OH2	MEAN
PST-2H7 (DIMENSION)	9.0	6.3	7.7
PST-2PM (SATURN)	8.7	6.7	7.7
OMEGA II	8.0	7.0	7.5
MANHATTAN II	7.7	7.2	7.4
PST-259 (COMMANDER)	8.0	6.7	7.3
ALLAIRE	8.3	6.2	7.3
PICK 300 (BLAZER II)	8.0	6.5	7.3
PRELUDE	8.3	6.2	7.3
PST-2HH (CHARGER)	8.0	6.5	7.3
ISI-851 (LINDSAY)	8.3	6.0	7.2
PST-250 (COMPETITOR)	8.0	6.3	7.2
PALMER	8.0	6.2	7.1
PENNANT	8.0	6.2	7.1
SR 4100	7.7	6.5	7.1
NK 80389	8.0	6.0	7.0
PICK 233 (DASHER II)	7.3	6.7	7.0
246	7.7	6.2	6.9
PICK 715 (EDGE)	7.7	6.2	6.9
CITATION II	8.0	5.8	6.9
PATRIOT	8.0	5.8	6.9
REPELL	7.3	6.5	6.9
BIRDIE II	7.7	6.0	6.8
PST-M2E (MAN. II W/E)	7.0	6.7	6.8
RUNAWAY	7.7	6.0	6.8
PST-2DD	7.3	6.3	6.8
KWS-AL-2 (AQUARIUS)	7.3	6.2	6.8
PICK 647 (RIVIERA)	7.3	6.2	6.8
RODEO	6.7	6.7	6.7
DIPLOMAT	7.3	6.0	6.7
PSU-333	7.3	6.0	6.7
SR 4000	7.0	6.3	6.7
SR 4031 (NOVA)	7.3	6.0	6.7
DERBY	6.7	6.5	6.6
GOALIE	7.0	6.2	6.6
YORKTOWN II	7.7	5.5	6.6
PICK 600 (FIESTA II)	7.0	6.0	6.5
RANGER	6.7	6.3	6.5
GATOR	6.7	6.2	6.4
ISI-K2 (DILLON)	6.7	6.2	6.4
REGAL	6.7	6.2	6.4
PSU-222	6.7	6.0	6.3
TARA	6.7	6.0	6.3
BELLE	6.7	5.7	6.2
BAR LP 410 (BARRAGE)	5.0	7.3	6.2
COWBOY	7.0	5.3	6.2

LEAFSPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE

NAME	NJ1	OH2	MEAN
CALIENTE	6.0	6.2	6.1
J207	6.0	6.0	6.0
J208	6.3	5.7	6.0
MANHATTAN	6.0	6.0	6.0
VINTAGE-2DF	6.7	5.3	6.0
PAVO	5.7	6.0	5.8
DEL 946	6.0	5.5	5.8
MOM LP 763 (TORONTO)	5.3	6.0	5.7
REGENCY	5.7	5.5	5.6
BARRY	5.3	5.8	5.6
OVATION	5.7	5.3	5.5
RONJA	5.7	5.3	5.5
SHERIFF	4.3	5.3	4.8
DELRAY	3.3	6.2	4.8
PENNFINE	4.0	5.3	4.7
ACROBAT	3.0	5.8	4.4
BRENDA	3.0	5.5	4.3
LINN	4.0	4.0	4.0
BAR LP 454 (BARCREDO)	2.0	5.8	3.9
RIVAL	1.7	5.8	3.8
LSD VALUE	1.5	1.3	1.0

1/ LEAFSPOT RATED AT "NJ1" IN 1987 AND AT "OH2" IN 1989 & 1990.

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 19. DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/					
NAME	IL1	IN1	PA1	PA2	MEAN
PENNANT	4.3	8.7	6.7	8.3	7.0
PST-259 (COMMANDER)	6.0	6.7	7.0	8.0	6.9
PST-2PM (SATURN)	5.3	7.7	6.7	8.0	6.9
SR 4100	4.7	8.0	7.0	8.0	6.9
REGENCY	6.0	7.3	6.3	8.0	6.9
BIRDIE II	4.7	8.0	6.7	8.0	6.8
DELRAY	4.7	7.7	6.7	8.3	6.8
BRENDA	5.3	7.7	6.3	8.0	6.8
PST-250 (COMPETITOR)	5.3	7.0	7.0	7.7	6.8
CITATION II	5.3	7.3	6.0	8.0	6.7
DERBY	3.7	7.3	7.0	8.7	6.7
PATRIOT	3.7	8.3	6.7	7.7	6.6
PICK 715 (EDGE)	4.3	8.0	6.0	7.7	6.5
VINTAGE-2DF	4.7	6.7	6.7	8.0	6.5
PST-M2E (MAN. II W/E)	4.0	7.3	7.3	7.3	6.5
ALLAIRE	4.0	7.0	6.7	8.0	6.4
DEL 946	4.3	6.7	6.7	8.0	6.4
GOALIE	6.0	6.0	5.7	8.0	6.4
PICK 600 (FIESTA II)	6.0	7.0	5.0	7.7	6.4
SR 4031 (NOVA)	5.0	7.3	6.0	7.3	6.4
PICK 300 (BLAZER II)	5.7	8.0	5.0	6.7	6.3
PENNFINE	4.7	6.3	6.3	8.0	6.3
RUNAWAY	3.7	8.0	6.3	7.3	6.3
246	5.0	5.7	6.7	7.7	6.3
J207	4.3	6.7	6.3	7.7	6.3
LINN	3.0	8.3	6.3	7.3	6.3
PST-2H7 (DIMENSION)	4.0	6.0	7.3	7.7	6.3
RANGER	4.7	7.3	5.7	7.3	6.3
SR 4000	3.7	7.7	6.7	7.0	6.3
PST-2DD	3.3	7.7	.	7.7	6.2
MOM LP 763 (TORONTO)	5.7	6.7	5.0	7.3	6.2
RIVAL	5.0	6.7	5.3	7.7	6.2
SHERIFF	4.0	7.7	5.7	7.3	6.2
REGAL	4.3	5.7	6.3	8.3	6.2
COWBOY	4.0	5.3	6.7	8.3	6.1
DIPLOMAT	3.7	6.7	6.0	8.0	6.1
OVATION	4.7	8.0	5.7	6.0	6.1
PICK 233 (DASHER II)	3.7	6.7	6.0	8.0	6.1
BELLE	4.3	6.7	5.3	8.0	6.1
CALIENTE	4.0	5.3	7.0	8.0	6.1
ISI-K2 (DILLON)	4.7	6.7	5.7	7.3	6.1
MANHATTAN II	4.0	6.3	6.0	8.0	6.1
RODEO	3.0	7.3	6.7	7.3	6.1
BARRY	3.7	7.3	6.0	7.0	6.0
ISI-851 (LINDSAY)	5.0	5.3	6.0	7.7	6.0

DOLLAR SPOT RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE

NAME	IL1	IN1	PA1	PA2	MEAN
PALMER	3.7	7.0	5.7	7.7	6.0
REPELL	4.3	7.3	5.3	7.0	6.0
OMEGA II	4.0	6.3	6.3	7.3	6.0
NK 80389	5.7	3.7	6.3	8.0	5.9
PSU-222	4.3	5.7	6.0	7.7	5.9
PRELUDE	4.0	6.3	5.3	8.0	5.9
PST-2HH (CHARGER)	4.3	6.3	5.7	7.3	5.9
PICK 647 (RIVIERA)	5.0	5.0	6.0	7.3	5.8
YORKTOWN II	3.3	6.3	6.0	7.7	5.8
BAR LP 454 (BARCREDO)	4.7	6.0	6.0	6.3	5.8
GATOR	4.3	6.0	5.7	7.0	5.8
MANHATTAN	4.7	5.7	5.3	7.3	5.8
J208	2.3	7.3	5.7	7.3	5.7
PSU-333	3.7	6.0	6.0	7.0	5.7
BAR LP 410 (BARRAGE)	2.3	5.7	5.7	8.0	5.4
ACROBAT	3.7	5.3	4.7	7.3	5.3
PAVO	2.7	5.7	4.7	8.0	5.3
RONJA	3.3	5.3	4.0	7.3	5.0
TARA	3.7	4.0	5.3	7.0	5.0
KWS-AL-2 (AQUARIUS)	2.0	4.3	5.7	7.0	4.8
LSD VALUE	2.0	2.8	1.5	1.1	1.0

1/ DOLLAR SPOT RATED IN 1989 ONLY.

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 20.

RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 1/											
NAME	BC1	ID2	IL1	MD1	MI1	OH2	PA1	PA2	UB1	VA1	MEAN
REGAL	7.0	9.0	6.3	8.7	6.0	8.0	6.7	6.7	7.0	6.7	7.2
DELRAY	6.0	8.3	6.0	8.7	5.3	8.0	6.7	7.7	7.0	6.0	7.0
TARA	5.7	9.0	7.0	8.7	6.7	6.3	7.7	6.0	6.3	6.0	6.9
PST-259 (COMMANDER)	7.0	8.3	7.0	8.3	5.7	7.7	7.7	6.7	4.3	6.7	6.9
RUNAWAY	7.0	9.0	5.7	8.7	6.0	7.3	6.7	6.3	5.3	6.7	6.9
PALMER	7.0	8.0	6.3	8.3	6.7	6.3	6.3	7.0	4.3	7.7	6.8
BIRDIE II	6.3	9.0	6.3	8.3	6.3	7.7	6.3	6.0	4.3	7.0	6.8
PST-2H7 (DIMENSION)	6.7	9.0	7.7	8.3	5.3	5.0	7.0	6.7	5.0	7.0	6.8
BRENDA	6.3	9.0	6.7	8.3	6.3	7.3	5.7	6.3	5.0	6.3	6.7
PICK 233 (DASHER II)	6.0	9.0	7.3	8.0	5.7	6.7	7.0	6.3	4.3	7.0	6.7
OMEGA II	6.7	8.0	6.3	8.7	5.0	7.3	7.0	6.0	4.7	7.7	6.7
PSU-222	6.3	9.0	7.3	8.3	5.7	6.7	5.7	6.7	5.3	6.3	6.7
NK 80389	6.7	8.7	6.0	8.3	5.7	7.3	7.0	7.0	4.3	6.0	6.7
YORKTOWN II	6.7	7.7	7.0	8.3	7.0	6.0	6.0	6.7	5.3	6.3	6.7
DEL 946	6.3	8.5	7.0	8.7	5.7	6.7	6.3	6.0	5.3	6.3	6.7
REPELL	5.7	8.3	7.0	8.3	6.3	6.7	6.0	7.0	4.7	6.7	6.7
PICK 300 (BLAZER II)	5.3	8.7	7.3	8.3	6.7	7.3	4.7	6.7	5.0	6.7	6.7
BAR LP 410 (BARRAGE)	5.3	7.7	5.7	8.0	7.0	7.7	6.3	6.7	5.7	6.3	6.6
BELLE	5.7	9.0	7.3	8.3	6.0	7.7	6.0	6.7	4.3	5.3	6.6
DERBY	5.7	9.0	6.0	8.3	6.0	6.0	6.0	6.0	6.0	7.3	6.6
PENNFINE	5.3	8.7	6.3	8.3	6.3	7.7	5.7	6.7	5.0	6.3	6.6
GATOR	6.3	9.0	7.3	8.3	5.7	6.3	6.3	7.0	3.3	6.3	6.6
PSU-333	6.7	8.3	7.0	8.7	6.3	6.3	5.3	5.3	5.0	7.0	6.6
RIVAL	6.0	8.0	5.3	8.0	7.3	7.7	6.3	8.0	4.7	4.7	6.6
COWBOY	6.0	8.3	6.7	8.3	6.0	6.0	6.7	6.7	5.0	5.7	6.5
PST-M2E (MAN. II W/E)	5.7	8.7	7.3	9.0	5.0	6.0	6.3	5.7	6.0	5.7	6.5
ALLAIRE	6.3	9.0	6.0	8.3	5.3	5.7	7.7	6.7	4.0	6.0	6.5
MOM LP 763 (TORONTO)	6.0	8.7	6.3	8.7	5.0	6.7	6.3	6.0	5.0	6.3	6.5
PENNANT	6.0	8.3	8.3	8.7	6.3	5.0	5.7	6.0	3.7	7.0	6.5
SR 4100	6.3	9.0	8.0	8.3	6.3	4.0	6.7	5.7	3.3	7.0	6.5
CITATION II	6.7	7.0	6.7	8.3	5.0	6.7	7.0	6.0	4.3	6.7	6.4
RANGER	5.7	8.7	7.0	8.3	5.3	7.0	6.0	5.3	4.0	7.0	6.4
REGENCY	7.3	8.7	7.0	7.7	4.7	6.0	6.3	6.0	4.7	6.0	6.4
PAVO	6.0	8.7	4.3	8.3	6.3	7.7	6.7	5.7	4.3	6.3	6.4
PICK 647 (RIVIERA)	5.7	7.0	7.3	8.0	6.0	6.0	6.7	6.7	3.7	7.3	6.4
ACROBAT	6.7	8.3	5.7	8.3	7.0	6.3	7.3	5.7	3.3	5.3	6.4
GOALIE	5.3	8.0	7.0	8.3	5.0	7.3	6.3	6.3	3.7	6.7	6.4
MANHATTAN	6.7	8.7	5.0	8.3	4.7	7.0	6.7	5.3	5.0	6.3	6.4
PRELUDE	6.0	9.0	6.7	8.7	5.3	6.0	5.0	5.7	3.7	7.3	6.3
VINTAGE-2DF	5.3	8.0	6.3	9.0	5.0	6.7	5.7	5.0	5.3	7.0	6.3
CALIENTE	4.7	8.7	6.7	8.7	5.3	6.7	5.3	5.7	4.0	7.3	6.3
J208	6.7	8.7	5.7	8.7	5.7	6.3	5.7	5.3	4.3	6.0	6.3
MANHATTAN II	7.0	7.7	6.7	8.7	5.3	7.0	6.3	4.7	4.0	5.7	6.3
SR 4031 (NOVA)	6.3	7.0	6.0	8.7	6.0	6.3	6.3	4.3	4.7	7.0	6.3
DIPLOMAT	6.0	9.0	5.0	8.3	6.0	5.7	6.7	6.0	3.0	7.0	6.3

TABLE 20. (continued) RED THREAD RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE											
NAME	BC1	ID2	IL1	MD1	MI1	OH2	PA1	PA2	UB1	VA1	MEAN
OVATION	6.3	7.0	6.0	8.7	6.7	6.7	6.7	5.3	3.3	6.0	6.3
PICK 715 (EDGE)	5.3	6.7	7.3	8.7	6.3	4.7	6.3	6.0	4.7	6.7	6.3
ISI-K2 (DILLON)	6.3	8.0	5.7	9.0	5.7	6.0	5.7	5.0	4.7	6.7	6.3
PICK 600 (FIESTA II)	5.7	8.3	6.3	8.3	5.3	6.7	5.3	6.3	4.0	6.0	6.2
RONJA	6.0	7.3	5.7	9.0	5.7	6.7	6.3	6.3	3.0	6.3	6.2
SR 4000	6.3	7.7	7.7	8.0	5.3	6.0	5.7	5.7	3.0	6.7	6.2
PST-2PM (SATURN)	6.0	8.3	7.0	8.3	5.3	6.0	5.7	4.3	4.0	6.7	6.2
PST-250 (COMPETITOR)	6.7	8.7	7.3	8.0	4.7	6.0	5.3	5.0	3.3	6.3	6.1
BAR LP 454 (BARCREDO)	5.3	7.7	6.3	8.3	6.3	6.7	4.7	5.3	4.7	6.0	6.1
J207	6.7	6.7	5.0	8.0	5.7	5.7	6.3	6.3	4.3	6.3	6.1
PATRIOT	5.7	9.0	6.3	8.3	4.3	5.7	6.0	5.0	5.3	5.3	6.1
RODEO	6.0	8.7	5.7	8.3	4.7	6.0	6.0	6.0	4.7	5.0	6.1
SHERIFF	6.3	7.7	6.0	8.3	4.0	7.0	6.0	5.3	5.3	4.7	6.1
246	5.7	8.3	6.0	9.0	3.7	7.0	6.3	5.7	3.0	6.0	6.1
PST-2DD	6.7	7.3	7.0	8.0	5.0	5.3	.	5.7	3.3	6.0	6.0
ISI-851 (LINDSAY)	5.7	7.7	7.0	8.3	4.3	5.3	5.3	5.3	4.3	6.3	6.0
KWS-AL-2 (AQUARIUS)	6.0	7.7	5.3	8.3	5.0	7.0	6.0	5.0	3.7	5.0	5.9
PST-2HH (CHARGER)	5.0	6.7	6.7	8.3	4.7	5.3	6.0	5.0	4.3	7.0	5.9
LINN	7.3	8.7	3.3	8.3	2.3	7.0	5.3	6.0	4.0	6.3	5.9
BARRY	6.7	8.7	5.7	8.3	3.7	5.3	5.3	3.0	3.0	6.0	5.6
LSD VALUE	1.8	2.4	1.5	0.9	2.2	2.7	1.7	1.7	2.7	1.1	0.6

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

TABLE 21. BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/						
NAME	IN1	MD1	NJ1	NJ2	VA1	MEAN
SR 4000	8.3	9.0	5.3	7.3	8.3	7.7
CALIENTE	7.7	7.7	5.7	6.3	8.7	7.2
GOALIE	7.3	8.0	6.3	6.0	8.3	7.2
PST-2H7 (DIMENSION)	7.3	7.7	6.7	6.0	8.3	7.2
OMEGA II	8.0	8.3	6.0	4.7	8.7	7.1
PST-2PM (SATURN)	7.0	8.3	6.0	6.7	7.7	7.1
PALMER	7.3	7.3	6.0	6.0	9.0	7.1
PENNANT	6.3	8.3	5.3	6.7	8.7	7.1
PICK 300 (BLAZER II)	7.7	6.7	6.0	6.0	8.7	7.0
PICK 233 (DASHER II)	7.0	8.3	5.0	5.7	8.7	6.9
PST-M2E (MAN. II W/E)	8.0	8.3	4.7	5.7	8.0	6.9
BIRDIE II	6.3	8.3	4.7	6.3	8.3	6.8
PENNFINE	8.7	7.3	4.7	5.0	8.3	6.8
PST-259 (COMMANDER)	8.0	7.3	5.0	6.0	7.7	6.8
PST-2HH (CHARGER)	7.0	7.7	5.3	6.0	8.0	6.8
SR 4100	5.7	7.7	6.0	6.0	8.7	6.8
PICK 715 (EDGE)	7.7	8.0	5.3	4.7	7.7	6.7
COWBOY	8.7	7.7	4.3	5.0	7.3	6.6
DELRAY	7.7	7.3	4.0	5.7	8.3	6.6
PICK 600 (FIESTA II)	6.7	7.7	6.0	4.7	8.0	6.6
SHERIFF	8.0	7.3	4.0	5.7	8.0	6.6
CITATION II	7.3	8.0	4.7	5.7	7.0	6.5
PRELUDE	7.3	7.0	6.0	5.7	6.7	6.5
PSU-222	7.3	6.3	5.7	5.7	7.7	6.5
TARA	8.3	6.3	4.3	6.0	7.3	6.5
DERBY	7.3	6.7	5.3	5.3	7.7	6.5
PICK 647 (RIVIERA)	7.0	6.3	5.3	5.3	8.3	6.5
MANHATTAN II	5.7	7.7	5.3	4.7	8.7	6.4
REGAL	7.7	7.0	5.0	5.0	7.3	6.4
YORKTOWN II	7.3	5.3	5.3	5.7	8.0	6.3
BRENDA	7.0	6.3	4.7	5.3	8.3	6.3
BELLE	6.0	6.0	5.7	5.3	8.3	6.3
SR 4031 (NOVA)	6.7	7.3	3.7	5.3	8.3	6.3
GATOR	6.3	5.7	5.3	5.3	8.7	6.3
ISI-851 (LINDSAY)	7.3	7.3	4.3	4.3	7.7	6.2
PSU-333	7.3	7.0	5.7	5.3	5.7	6.2
BAR LP 410 (BARRAGE)	7.0	6.3	3.3	5.3	9.0	6.2
REPELL	7.0	6.7	4.3	5.0	7.7	6.1
RODEO	6.0	6.7	5.0	4.0	9.0	6.1
KWS-AL-2 (AQUARIUS)	7.3	6.3	4.7	4.7	7.3	6.1
PATRIOT	6.7	7.0	4.7	4.0	7.7	6.0
DEL 946	6.0	6.3	4.3	4.7	8.7	6.0
OVATION	6.3	6.7	4.0	5.3	7.7	6.0
PST-2DD	6.7	7.3	4.3	4.3	7.3	6.0
PST-250 (COMPETITOR)	5.0	6.7	4.7	5.0	7.7	5.8

BROWN PATCH RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	IN1	MD1	NJ1	NJ2	VA1	MEAN
ALLAIRE	7.3	6.3	3.7	4.0	7.7	5.8
REGENCY	6.0	7.0	3.7	3.7	8.3	5.7
DIPLOMAT	7.3	5.0	4.0	3.7	8.3	5.7
RANGER	7.0	5.7	3.7	4.0	8.0	5.7
MOM LP 763 (TORONTO)	6.3	5.0	3.3	4.7	9.0	5.7
VINTAGE-2DF	5.3	7.3	5.0	3.7	7.0	5.7
ACROBAT	5.7	5.7	3.0	4.7	9.0	5.6
246	7.0	6.3	3.3	3.3	7.3	5.5
BAR LP 454 (BARCREDO)	6.0	4.7	3.3	4.0	9.0	5.4
ISI-K2 (DILLON)	7.0	7.3	3.0	3.3	6.3	5.4
RUNAWAY	4.3	6.0	4.0	3.3	9.0	5.3
NK 80389	7.7	4.7	4.7	3.0	6.3	5.3
RIVAL	5.3	5.0	4.0	3.0	9.0	5.3
BARRY	5.7	5.7	3.3	3.0	7.0	4.9
RONJA	5.7	5.7	2.0	2.0	9.0	4.9
PAVO	7.0	5.3	1.7	2.7	7.7	4.9
J207	5.7	5.0	3.3	2.3	7.3	4.7
J208	4.7	4.3	3.0	2.3	7.3	4.3
MANHATTAN	4.3	4.7	2.7	1.7	8.3	4.3
LINN	4.0	4.7	3.0	1.0	7.3	4.0
LSD VALUE	2.2	1.4	2.0	1.6	2.0	0.8

1/ BROWN PATCH RATED IN 1987 AT "IN1", "NJ2" AND "VA1" AND
IN 1989 AT "MD1" AND "NJ1".

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 22. CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE 2/

NAME	OR1	MEAN
KWS-AL-2 (AQUARIUS)	7.7	7.7
GATOR	7.3	7.3
ISI-K2 (DILLON)	7.0	7.0
J208	7.0	7.0
BAR LP 454 (BARCREDO)	6.7	6.7
MOM LP 763 (TORONTO)	6.7	6.7
PICK 300 (BLAZER II)	6.7	6.7
PST-2DD	6.7	6.7
BAR LP 410 (BARRAGE)	6.3	6.3
RIVAL	6.3	6.3
ALLAIRE	6.0	6.0
J207	6.0	6.0
MANHATTAN II	6.0	6.0
OMEGA II	6.0	6.0
PAVO	6.0	6.0
RODEO	6.0	6.0
ACROBAT	5.7	5.7
BIRDIE II	5.7	5.7
ISI-851 (LINDSAY)	5.7	5.7
OVATION	5.7	5.7
PRELUDE	5.7	5.7
PST-250 (COMPETITOR)	5.7	5.7
PST-2H7 (DIMENSION)	5.7	5.7
PST-M2E (MAN. II W/E)	5.7	5.7
REPELL	5.7	5.7
RONJA	5.7	5.7
RUNAWAY	5.7	5.7
CITATION II	5.3	5.3
DERBY	5.3	5.3
NK 80389	5.3	5.3
PST-2HH (CHARGER)	5.3	5.3
COWBOY	5.0	5.0
PATRIOT	5.0	5.0
PICK 715 (EDGE)	5.0	5.0
TARA	5.0	5.0
PICK 600 (FIESTA II)	4.7	4.7
PST-259 (COMMANDER)	4.7	4.7
246	4.3	4.3
PALMER	4.3	4.3
REGAL	4.3	4.3
SR 4031 (NOVA)	4.3	4.3
PICK 647 (RIVIERA)	4.0	4.0
SR 4100	4.0	4.0
BARRY	3.7	3.7
LINN	3.7	3.7

CROWN RUST RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

CROWN RUST RATINGS 1-9; 9=NO DISEASE

NAME	OR1	MEAN
PICK 233 (DASHER II)	3.7	3.7
PSU-222	3.7	3.7
RANGER	3.7	3.7
SHERIFF	3.7	3.7
SR 4000	3.7	3.7
CALIENTE	3.3	3.3
DELRAY	3.3	3.3
DIPLOMAT	3.3	3.3
PENNFINE	3.3	3.3
PST-2PM (SATURN)	3.3	3.3
VINTAGE-2DF	3.3	3.3
BRENDA	3.0	3.0
GOALIE	3.0	3.0
MANHATTAN	3.0	3.0
REGENCY	3.0	3.0
YORKTOWN II	3.0	3.0
DEL 946	2.7	2.7
PSU-333	2.7	2.7
BELIE	2.3	2.3
PENNANT	2.3	2.3
LSD VALUE	1.9	1.9

1/ CROWN RUST RATED IN 1989 ONLY.

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 23. CHINCH BUG RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

CHINCH BUG RATINGS 1-9; 9=NO DAMAGE 2/

NAME	UB1	MEAN
PENNANT	9.0	9.0
PICK 715 (EDGE)	9.0	9.0
PST-259 (COMMANDER)	9.0	9.0
CITATION II	8.7	8.7
PST-M2E (MAN. II W/E)	8.7	8.7
REGAL	8.7	8.7
SR 4000	8.7	8.7
BIRDIE II	8.3	8.3
PST-2PM (SATURN)	8.3	8.3
SR 4100	8.3	8.3
VINTAGE-2DF	8.3	8.3
PICK 233 (DASHER II)	8.0	8.0
SR 4031 (NOVA)	8.0	8.0
246	7.7	7.7
PST-2H7 (DIMENSION)	7.7	7.7
CALIENTE	7.3	7.3
GOALIE	7.3	7.3
OMEGA II	7.0	7.0
PST-2HH (CHARGER)	7.0	7.0
REPELL	7.0	7.0
BAR LP 410 (BARRAGE)	6.7	6.7
PALMER	6.3	6.3
PATRIOT	6.3	6.3
PST-2DD	6.3	6.3
BARRY	6.0	6.0
DELRAY	6.0	6.0
PICK 600 (FIESTA II)	5.7	5.7
PSU-333	5.7	5.7
PENNFINE	5.3	5.3
PICK 647 (RIVIERA)	5.3	5.3
DERBY	5.0	5.0
ISI-851 (LINDSAY)	5.0	5.0
BAR LP 454 (BARCREDO)	4.7	4.7
COWBOY	4.7	4.7
OVATION	4.7	4.7
RIVAL	4.7	4.7
PAVO	4.3	4.3
PST-250 (COMPETITOR)	4.3	4.3
MOM LP 763 (TORONTO)	4.0	4.0
PRELUDE	4.0	4.0
J207	3.7	3.7
MANHATTAN	3.7	3.7
DEL 946	3.3	3.3
GATOR	3.3	3.3
KWS-AL-2 (AQUARIUS)	3.3	3.3

CHINCH BUG RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

CHINCH BUG RATINGS 1-9; 9=NO DAMAGE

NAME	UB1	MEAN
ALLAIRE	3.0	3.0
BRENDA	3.0	3.0
J208	3.0	3.0
MANHATTAN II	3.0	3.0
PICK 300 (BLAZER II)	3.0	3.0
RONJA	3.0	3.0
SHERIFF	3.0	3.0
TARA	2.7	2.7
YORKTOWN II	2.7	2.7
ISI-K2 (DILLON)	2.3	2.3
LINN	2.3	2.3
NK 80389	2.3	2.3
PSU-222	2.3	2.3
ACROBAT	1.7	1.7
DIPLOMAT	1.7	1.7
RUNAWAY	1.7	1.7
BELIE	1.3	1.3
REGENCY	1.3	1.3
RODEO	1.3	1.3
RANGER	1.0	1.0
LSD VALUE	2.6	2.6

1/ CHINCH BUGS RATED IN 1989 ONLY.

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 24. WHITE GRUB RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

WHITE GRUB RATINGS 1-9; 9=NO DAMAGE 2/			
NAME	IN1	MD1	MEAN
BRENDA	8.3	7.0	7.7
PST-2HH (CHARGER)	7.0	8.3	7.7
246	8.7	6.7	7.7
GOALIE	8.0	7.3	7.7
BELLE	8.7	6.3	7.5
PICK 715 (EDGE)	8.7	6.3	7.5
PST-M2E (MAN. II W/E)	8.7	6.3	7.5
PSU-333	7.3	7.7	7.5
OMEGA II	7.3	7.3	7.3
DERBY	8.3	6.0	7.2
GATOR	7.7	6.7	7.2
REGAL	8.3	6.0	7.2
RANGER	8.3	5.3	6.8
RIVAL	9.0	4.7	6.8
ACROBAT	7.7	5.7	6.7
PST-259 (COMMANDER)	7.7	5.7	6.7
BARRY	7.3	6.0	6.7
CITATION II	6.0	7.3	6.7
OVATION	8.0	5.3	6.7
PICK 300 (BLAZER II)	8.7	4.7	6.7
TARA	6.0	7.3	6.7
DEL 946	7.7	5.3	6.5
RONJA	6.7	6.3	6.5
RUNAWAY	7.7	5.3	6.5
DIPLOMAT	6.7	6.0	6.3
SR 4100	6.7	6.0	6.3
ALLAIRE	6.3	6.3	6.3
COWBOY	5.3	7.3	6.3
BAR LP 454 (BARCREDO)	7.7	4.7	6.2
BIRDIE II	7.7	4.7	6.2
ISI-K2 (DILLON)	8.3	4.0	6.2
PENNFINE	9.0	3.3	6.2
PALMER	7.0	5.3	6.2
PAVO	8.0	4.3	6.2
REGENCY	6.3	6.0	6.2
VINTAGE-2DF	8.0	4.3	6.2
DELRAY	6.3	5.7	6.0
MOM LP 763 (TORONTO)	6.3	5.7	6.0
PRELUDE	7.3	4.7	6.0
SR 4031 (NOVA)	6.7	5.3	6.0
SHERIFF	6.0	5.7	5.8
YORKTOWN II	6.0	5.7	5.8
PENNANT	8.7	3.0	5.8
PICK 600 (FIESTA II)	9.0	2.7	5.8
J208	6.0	5.3	5.7

WHITE GRUB RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

WHITE GRUB RATINGS 1-9; 9=NO DAMAGE

NAME	IN1	MD1	MEAN
PICK 647 (RIVIERA)	6.0	5.3	5.7
SR 4000	6.3	5.0	5.7
ISI-851 (LINDSAY)	6.0	5.0	5.5
LINN	7.0	4.0	5.5
PSU-222	5.7	5.3	5.5
REPELL	7.3	3.7	5.5
PATRIOT	4.7	6.0	5.3
PST-250 (COMPETITOR)	5.0	5.7	5.3
CALIENTE	7.3	3.3	5.3
NK 80389	3.7	7.0	5.3
PICK 233 (DASHER II)	5.3	5.0	5.2
PST-2PM (SATURN)	6.0	4.3	5.2
J207	7.0	3.0	5.0
MANHATTAN II	6.0	4.0	5.0
PST-2DD	4.7	4.7	4.7
PST-2H7 (DIMENSION)	5.7	3.7	4.7
BAR LP 410 (BARRAGE)	5.0	4.3	4.7
MANHATTAN	4.7	4.3	4.5
RODEO	4.7	4.0	4.3
KWS-AL-2 (AQUARIUS)	3.3	4.0	3.7
LSD VALUE	3.3	3.8	2.5

1/ WHITE GRUBS RATED AT "IN1" IN 1989 AND AT "MD1" IN 1990.

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 25. MOWING RATINGS OF PERENNIAL RYEGRASS CULTIVARS 1/
1987-1990 DATA

MOWING RATINGS 1-9; 9=CLEANEST CUT 2/			
NAME	BC1	ID2	MEAN
PST-2PM (SATURN)	7.0	7.0	7.0
KWS-AL-2 (AQUARIUS)	7.0	6.7	6.8
NK 80389	7.0	6.7	6.8
OMEGA II	7.0	6.7	6.8
PATRIOT	7.0	6.7	6.8
PENNANT	7.0	6.7	6.8
SR 4000	7.0	6.7	6.8
MANHATTAN II	7.0	6.3	6.7
PICK 233 (DASHER II)	7.0	6.3	6.7
PST-2DD	7.0	6.3	6.7
PST-2H7 (DIMENSION)	7.0	6.3	6.7
PST-2HH (CHARGER)	7.0	6.3	6.7
PST-M2E (MAN. II W/E)	7.0	6.3	6.7
RODEO	7.0	6.3	6.7
BAR LP 454 (BARCREDO)	7.0	6.0	6.5
CITATION II	7.0	6.0	6.5
PALMER	7.0	6.0	6.5
PICK 600 (FIESTA II)	7.0	6.0	6.5
PICK 715 (EDGE)	7.0	6.0	6.5
PSU-222	7.0	6.0	6.5
PSU-333	7.0	6.0	6.5
TARA	7.0	6.0	6.5
DEL 946	6.3	6.5	6.4
DELRAY	7.0	5.7	6.3
GATOR	7.0	5.7	6.3
ISI-851 (LINDSAY)	6.7	6.0	6.3
MOM LP 763 (TORONTO)	7.0	5.7	6.3
PICK 300 (BLAZER II)	7.0	5.7	6.3
PICK 647 (RIVIERA)	6.7	6.0	6.3
PST-250 (COMPETITOR)	7.0	5.7	6.3
PST-259 (COMMANDER)	7.0	5.7	6.3
RANGER	7.0	5.7	6.3
REPELL	6.7	6.0	6.3
YORKTOWN II	7.0	5.7	6.3
BRENDA	7.0	5.5	6.3
REGAL	7.0	5.5	6.3
SR 4100	7.0	5.5	6.3
246	6.7	5.7	6.2
ALLAIRE	6.7	5.7	6.2
CALIENTE	6.7	5.7	6.2
RIVAL	6.7	5.7	6.2
SHERIFF	6.7	5.7	6.2
OVATION	6.3	6.0	6.2
PRELUDE	7.0	5.3	6.2
RONJA	7.0	5.3	6.2

MOWING RATINGS OF PERENNIAL RYEGRASS CULTIVARS
1987-1990 DATA

MOWING RATINGS 1-9; 9=CLEANEST CUT

NAME	BC1	ID2	MEAN
BARRY	6.7	5.3	6.0
BELLE	7.0	5.0	6.0
DERBY	7.0	5.0	6.0
DIPLOMAT	7.0	5.0	6.0
BIRDIE II	7.0	4.7	5.8
GOALIE	6.7	5.0	5.8
J208	6.7	5.0	5.8
PENNFINE	6.7	5.0	5.8
REGENCY	6.7	5.0	5.8
SR 4031 (NOVA)	6.7	5.0	5.8
COWBOY	6.3	5.3	5.8
ISI-K2 (DILLON)	6.0	5.3	5.7
J207	6.3	5.0	5.7
ACROBAT	6.0	5.0	5.5
PAVO	6.0	4.7	5.3
VINTAGE-2DF	6.3	4.3	5.3
MANHATTAN	5.7	4.7	5.2
BAR LP 410 (BARRAGE)	6.0	4.0	5.0
RUNAWAY	6.3	3.5	4.9
LINN	4.0	1.7	2.8
LSD VALUE	0.6	1.5	0.8

- 1/ MOWING RATINGS TAKEN AT "BC1" IN 1988 AND AT "ID2" IN 1990.
- 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).