

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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CONTENTS

1987 National Tall Fescue Test - 1989 data

LOCATIONS SUBMITTING DATA FOR 1989.....	1
NATIONAL TALL FESCUE TEST, 1987 - Entries and Sponsors.....	2
Table A - 1989 Locations, Site Descriptions and Management Practices in the 1987 National Tall Fescue Test.....	3
Table B - Locations and Data Collected in 1989.....	4
Table 1 - Mean Turfgrass Quality Ratings of Tall Fescue Cultivars at Thirty-Seven Locations in the United States.....	6
Table 2 - Mean Turfgrass Quality Ratings of Tall Fescue Cultivars for Each Month Grown at Thirty-Seven Locations in the United States.....	10
Table 3 - Ranking of Mean Turfgrass Quality Ratings of Tall Fescue Cultivars at Thirty-Seven Locations in the United States.....	12
Table 4 - Genetic Color Ratings of Tall Fescue Cultivars.....	16
Table 5 - Spring Greenup Ratings of Tall Fescue Cultivars.....	18
Table 6 - Leaf Texture Ratings of Tall Fescue Cultivars.....	19
Table 7 - Winter Color Ratings of Tall Fescue Cultivars.....	21
Table 8 - Spring Density Ratings of Tall Fescue Cultivars.....	22
Table 9 - Summer Density Ratings of Tall Fescue Cultivars.....	23
Table 10 - Fall Density Ratings of Tall Fescue Cultivars.....	24
Table 11 - Percent Living Ground Cover (Spring) Ratings of Tall Fescue Cultivars.....	25
Table 12 - Percent Living Ground Cover (Summer) Ratings of Tall Fescue Cultivars.....	26
Table 13 - Percent Living Ground Cover (Fall) Ratings of Tall Fescue Cultivars.....	27
Table 14 - Fusarium Patch Ratings of Tall Fescue Cultivars.....	28
Table 15 - Brown Patch Ratings of Tall Fescue Cultivars.....	29
Table 16 - Vertical Growth Ratings of Tall Fescue Cultivars.....	31

LOCATIONS SUBMITTING DATA FOR 1989

<u>State</u>	<u>Location</u>	<u>Code</u>
Arkansas	Fayetteville	AR1
Arizona	Tucson	AZ1
California	Santa Clara	CA1
California	Santa Ana	CA2
California	Riverside	CA3
Georgia	Griffin	GA1
Idaho	Post Falls	ID2
Illinois	Urbana	IL1
Indiana	West Lafayette (high maintenance)	IN1
Indiana	West Lafayette (low maintenance)	IN2
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kansas	Wichita	KS2
Maryland	Beltsville (medium maintenance)	UB1
Maryland	Beltsville (low maintenance)	UB2
Maryland	Silver Spring	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
Missouri	St. Louis	MO3
Nebraska	Lincoln	NE1
New Jersey	North Brunswick	NJ1
New Jersey	Adelphia	NJ2
New Jersey	Martinsville	NJ3
New York	Ithaca	NY1
New York	Riverhead, Long Island	NY2
Ohio	Marysville	OH2
Oklahoma	Stillwater	OK1
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Rhode Island	Kingston	RI1
Texas	Dallas (high mowing)	TX1
Texas	Dallas (low mowing)	TX2
Virginia	Blacksburg	VA1
Virginia	Blackstone	VA2
Virginia	Richmond	VA3
Virginia	Virginia Beach	VA4
Washington	Ritzville	WA4

1987 NATIONAL TALL FESCUE TEST

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
1	Adventure	Warren's Turf Nursery	36	PST-5AP	Turf-Seed, Inc.
2	BAR Fa 7851 (Barnone)	Barenbrug Holland	37	PST-5HF (Amigo)	Medalist America
3	Trident	Seed Research of Oregon	38	Jaguar	Zajac Performance Seeds
4	Titan	Seed Research of Oregon	39	PST-DBC (Tradition)	Pennington Seed, Inc.
5	Pick DDF (Shortstop)	Pickseed West, Inc.	40	Olympic	Turf-Seed, Inc.
6	Pick 127 (Cochise)	Ampac Seed Co.	41	Jaguar II	Zajac Performance Seeds
7	Pick 84SPN (Guardian)	Roberts Seed Co.	42	Monarch	Turf-Seed, Inc.
8	Pick SLD (Emperor)	Zajac Performance Seeds	43	Apache	Turf-Seed, Inc.
9	PE-7	Reed Funk - Rutgers	44	PST-5DM (Arriba)	Pure-Seed Testing, Inc.
10	PE-7E (Shenandoah)	Willamette Seed Co.	45	Pick DM (Avanti)	Pickseed West, Inc.
11	Hubbard 87	Reed Funk - Rutgers	46	Normarc 99 (Vegas)	Normarc Seed Company
12	Syn Ga (Aqara)	O. M. Scott & Sons	47	Pacer	International Seeds, Inc.
13	Legend (Brahma)	Agway	48	Carefree	International Seeds, Inc.
14	Taurus	Turf Merchants, Inc.	49	Richmond	Jonathan Green, Inc.
15	Aztec	Turf Merchants, Inc.	50	Tip	NPI Seed, Inc.
16	Sundance	Seaboard Seed Co.	51	Ky-31	-
17	Fatima	Advanta Seeds West	52	Bel 86-1	Jack Murray - USDA, ARS
18	Normarc 25 (Austin)	Reed Funk - Rutgers	53	Bel 86-2	Jack Murray - USDA, ARS
19	Normarc 77 (Phoenix)	Normarc Seed Co.	54	PST-5EN	Pure-Seed Testing, Inc.
20	KWS-DUR	KWS-Einbeck	55	PST-5F2 (Winchester)	E. F. Burlingham
21	KWS-BG-6 (Twilight)	Turf Merchants	56	Finelawn 5GL	Finelawn Research Corp.
22	Willamette	Willamette Seed Co.	57	Finelawn I	Finelawn Research Corp.
23	Chieftain	Roberts Seed Co.	58	Rebel	Loft's Seed, Inc.
24	Pick GH6 (Maverick II)	Pickseed West, Inc.	59	Rebel II	Loft's Seed, Inc.
25	Thoroughbred	Pickseed West, Inc.	60	Tribute	Loft's Seed, Inc.
26	Pick TF9 (Crossfire)	Pickseed West, Inc.	61	Arid	Jacklin Seed Co.
27	PST-5OL (Olympic II)	Turf-Seed, Inc.	62	Wrangler	Jacklin Seed/LESCO, Inc.
28	PST-5D7 (Murietta)	Pure-Seed Testing, Inc.	63	Mesa	Jonathan Green, Inc.
29	Cimmaron	LESCO, Inc.	64	JB-2	Jacklin Seed Co.
30	Bonanza	Proprietary Seeds	65	Falcon	E. F. Burlingham
31	PST-5AG	Pure-Seed Testing, Inc.			
32	PST-5BL (Silverado)	Pure-Seed Testing, Inc.			
33	PST-5MW (Safari)	Pure-Seed Testing, Inc.			
34	Trailblazer	LESCO, Inc.			
35	PST-5D1 (Eldorado)	Pure-Seed Testing, Inc.			

TABLE A.

 1989 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES
 IN THE 1987 NATIONAL TALL FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
AR1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	4.1-5.0	FULL SUN	3.1-3.5	NO IRRIGATION
AZ1	SANDY LOAM	8.6+	-	-	-	FULL SUN	2.1-2.5	TO PREVENT STRESS
CA1	LOAM	6.6-7.0	-	-	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
CA2	-	-	-	-	-	-	-	-
CA3	-	-	-	-	-	-	-	-
GA1	SANDY CLAY LOAM	5.6-6.0	61-150	151-240	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	1.1-2.0	FULL SUN	2.6-3.0	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	-	-	-	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	61-150	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IN2	SILT LOAM AND SILT	7.1-7.5	61-150	241-375	0.0-1.0	FULL SUN	3.1-3.5	NO IRRIGATION
KS1	SILTY CLAY LOAM	7.1-7.5	151-270	376-500	3.1-4.0	FULL SUN	3.1-3.5	TO PREVENT STRESS
KS2	LOAMY SAND	6.6-7.0	61-150	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
MD1	SANDY LOAM	7.1-7.5	271-450	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
MI1	-	-	-	-	-	-	-	-
MO1	SILT LOAM AND SILT	6.1-6.5	-	-	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
MO3	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
NE1	SANDY CLAY LOAM	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ1	LOAM	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
NJ2	SANDY LOAM	6.1-6.5	151-270	151-240	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
NJ3	-	-	-	-	-	FULL SUN	1.6-2.0	-
NY1	SANDY LOAM	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
NY2	SANDY LOAM	6.1-6.5	0-60	0-150	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
OH2	SILTY CLAY AND CLAY	-	-	-	-	FULL SUN	1.1-1.5	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 DORMANCY
OR2	SILTY CLAY LOAM	5.6-6.0	-	-	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
RI1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
TX1	SILTY CLAY AND CLAY	7.6-8.5	451+	501+	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
TX2	SILTY CLAY AND CLAY	7.6-8.5	451+	501+	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	SANDY LOAM	6.1-6.5	151-270	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
UB2	SANDY LOAM	6.6-7.0	451+	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
VA1	-	6.1-6.5	61-150	241-375	3.1-4.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
VA2	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
VA3	SANDY LOAM	6.1-6.5	151-270	241-375	2.1-3.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
VA4	SANDY LOAM	6.1-6.5	61-150	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
WA4	SILT LOAM AND SILT	6.6-7.0	61-150	376-500	0.0-1.0	DENSE SHADE	2.1-2.5	ONLY DURING SEVERE STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1989

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
AR1				X	X	X	X	X	X	X	X	X
AZ1	X		X			X		X	X		X	
CA1		X	X		X			X	X	X		
CA2		X	X	X	X	X	X	X	X	X	X	X
CA3		X	X	X	X	X	X	X	X	X	X	X
GA1				X	X		X		X			
IA1				X	X	X	X	X	X			
ID2				X			X		X			
IL1					X	X		X		X		
IN1				X	X	X	X	X	X			
IN2				X	X	X	X	X	X			
KS1				X	X	X	X	X	X	X	X	
KS2						X	X	X	X			
MD1				X	X	X	X		X		X	
MI1					X	X	X	X	X	X	X	
MO1			X		X	X		X		X	X	
MO3				X	X	X	X	X	X	X	X	
NE1					X	X	X		X			
NJ1			X	X	X	X	X	X	X	X	X	
NJ2				X	X	X	X		X	X	X	
NJ3				X	X	X	X	X		X		
NY1				X	X	X	X	X	X	X		
NY2				X	X	X	X	X	X	X		
OH2					X				X			
OK1				X	X	X	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
RI1				X	X	X	X	X	X		X	
TX1	X	X	X	X	X	X	X	X	X	X	X	X
TX2	X	X	X	X	X	X	X	X	X	X	X	X
UB1				X	X	X	X		X	X	X	
UB2				X	X	X	X		X	X	X	
VA1				X	X	X	X	X	X	X	X	
VA2				X		X	X	X		X		
VA3				X	X	X	X		X		X	
VA4				X	X	X	X	X	X	X	X	
WA4												X

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1989

LOCATION	GENETIC COLOR RATING	SPRING GREENUP RATING	LEAF TEXTURE RATING	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	FUSARIUM PATCH	BROWN PATCH	VERTICAL GROWTH
AR1	X		X	X	X	X				X		X	
AZ1				X	X	X	X	X	X	X		X	
CA1				X	X	X				X			
CA2													
CA3			X										
GA1	X												
IA1													
ID2			X	X						X	X		
IL1				X									
IN1												X	
IN2													
KS1													
KS2													
MD1													
MI1													
MO1							X						
MO3		X	X	X	X	X							
NE1	X												
NJ1												X	
NJ2	X												
NJ3	X		X	X	X								
NY1													
NY2													
OH2	X		X										
OK1	X					X	X						
OR1													
OR2											X		
RI1													
TX1													
TX2													
UB1													
UB2													
VA1													
VA2				X								X	X
VA3													
VA4												X	
WA4				X						X			

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-SEVEN LOCATIONS IN THE UNITED STATES
1989 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																		
	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL1	IN1	IN2	KS1	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
* HUBBARD 87	5.1	5.9	6.9	6.1	6.9	7.3	6.9	6.6	7.6	7.6	4.7	7.5	7.4	6.8	6.1	6.8	7.0	6.8	6.1
* PICK 84SPN (GUARDIAN)	6.7	5.8	6.8	6.1	6.9	7.5	6.7	6.6	7.4	7.2	4.4	7.5	7.6	6.6	5.7	7.0	6.8	7.1	6.1
* PE-7E (SHENANDOAH)	6.0	5.9	7.0	6.1	6.9	6.9	7.0	6.8	7.8	7.1	4.7	7.3	7.7	6.7	.	7.1	6.9	6.2	6.0
PE-7	5.2	6.1	6.7	6.1	6.9	7.9	6.2	7.1	7.7	7.2	4.5	7.4	7.8	6.6	5.7	7.2	6.8	6.5	5.8
* PICK TF9 (CROSSFIRE)	6.8	5.4	6.7	6.1	6.9	7.7	5.9	6.8	7.3	6.8	4.3	7.7	8.0	6.3	6.0	6.4	6.5	5.2	6.4
PST-5MW	4.0	5.9	6.2	6.2	6.9	7.2	6.4	6.8	7.5	6.8	4.3	7.3	7.7	6.4	6.1	7.2	6.8	6.3	6.2
* PICK DM (AVANTI)	4.5	5.8	6.6	6.1	6.9	7.6	6.2	6.5	7.0	6.7	4.4	8.0	7.6	6.4	6.1	6.7	6.6	6.6	6.0
* PST-5HF (AMIGO)	6.2	5.8	6.7	6.1	6.8	7.1	5.9	6.7	7.6	6.8	4.3	7.4	7.5	6.4	5.6	7.3	6.2	6.0	5.9
* PICK 127 (COCHISE)	6.3	5.6	6.3	5.8	6.8	7.6	5.8	7.1	7.7	6.8	4.1	7.2	7.8	6.1	6.3	6.9	6.9	6.0	6.2
BEL 86-2	5.5	6.0	7.1	6.0	6.9	7.5	5.7	6.8	7.1	6.9	4.7	7.6	7.3	7.1	5.8	6.8	6.3	6.2	5.2
NORMARC 25	4.7	5.9	6.3	6.1	6.8	7.4	7.2	7.3	7.6	6.8	.	7.2	7.3	6.6	.	7.2	6.7	5.9	5.3
* AZTEC	5.4	5.7	6.8	6.1	6.9	7.3	5.9	7.0	7.2	7.0	4.3	7.7	7.8	6.7	6.1	6.7	6.4	5.4	6.3
* MONARCH	5.8	5.6	6.9	6.1	6.9	7.6	6.5	6.4	6.9	6.8	4.1	7.0	7.9	6.1	5.8	6.9	6.2	6.0	6.7
NORMARC 99	6.6	6.0	6.3	5.9	6.9	7.0	6.7	6.7	6.8	6.4	4.3	7.5	7.3	5.7	5.8	6.8	6.1	5.5	5.9
PST-5AG	5.2	5.6	6.4	6.1	6.9	6.4	5.1	6.7	7.5	6.9	4.4	7.3	7.0	6.6	5.9	6.6	6.4	6.1	5.2
* TRIBUTE	5.6	6.3	6.1	6.1	6.8	7.5	6.8	6.7	7.1	6.8	4.8	7.3	7.4	6.6	6.1	7.3	6.3	5.9	6.0
* PST-5D1 (ELDORADO)	5.3	5.9	6.4	6.0	6.9	7.2	6.2	6.8	7.1	6.7	4.2	7.4	7.5	6.5	6.3	6.9	6.5	6.0	6.1
* NORMARC 77 (PHOENIX)	5.0	5.9	6.6	6.1	6.9	7.6	5.9	7.0	7.6	6.9	4.4	7.1	7.1	6.8	5.8	6.7	6.2	6.0	5.4
* THOROUGHBRED	5.7	6.1	6.5	5.9	6.9	7.1	6.4	6.8	7.3	6.8	4.4	7.0	7.1	6.4	5.8	6.6	6.5	6.3	5.0
PST-5AP	4.9	5.8	6.1	6.1	6.8	6.9	6.7	6.5	7.4	6.6	4.6	7.1	7.6	6.4	5.8	6.4	6.5	6.3	5.3
* REBEL II	5.6	5.8	6.6	6.2	6.9	7.3	6.2	6.5	7.2	6.8	4.4	6.8	7.3	6.9	5.9	6.7	6.3	5.3	5.2
* CHIEFTAIN	4.5	5.7	6.3	5.9	6.9	6.9	5.5	7.1	7.3	6.9	4.5	7.1	7.6	6.9	5.6	7.0	6.3	5.3	5.3
* BONANZA	5.6	5.7	6.4	5.9	6.8	7.0	5.7	6.3	7.3	7.2	4.4	6.8	7.5	6.5	5.9	6.8	6.6	5.7	5.7
* PICK GH6 (MAVERICK II)	5.3	5.6	6.6	6.0	6.9	7.2	6.1	5.9	7.1	6.8	4.2	7.0	7.6	6.1	6.0	6.6	5.7	6.0	5.4
* PST-5OL (OLYMPIC II)	5.9	6.0	6.7	6.1	6.8	7.7	5.8	6.4	6.7	6.6	4.4	7.1	7.2	6.6	5.8	6.4	6.1	5.1	5.3
* WRANGLER	5.5	5.6	6.8	6.1	6.9	6.8	6.4	7.0	7.4	7.1	4.7	7.0	7.3	6.8	6.0	7.0	6.4	5.5	5.3
* APACHE	6.1	5.8	6.4	5.9	6.8	7.0	6.4	6.8	6.9	6.7	4.5	7.1	7.3	6.6	5.5	6.5	6.2	6.5	5.1
PST-5DM	5.3	5.7	6.7	6.1	6.9	6.9	6.6	6.6	6.9	6.8	4.3	6.9	7.0	6.6	5.6	6.9	6.1	6.1	5.3
PST-5EN	5.8	6.2	.	6.0	6.8	6.8	6.2	7.1	6.9	6.6	4.6	6.9	7.2	6.7	5.6	6.8	6.1	5.3	4.9
* JAGUAR II	5.1	5.7	6.2	5.8	6.8	7.5	6.8	6.2	7.0	7.0	4.4	6.8	7.2	6.9	6.0	7.0	6.3	5.3	4.8
* PICK DDF (SHORTSTOP)	5.1	5.4	6.4	6.0	6.9	6.3	5.3	6.6	6.9	6.7	4.4	7.6	7.3	5.9	6.0	6.9	6.3	6.0	5.3
KWS-DUR	5.1	5.9	6.3	6.0	6.9	7.1	6.5	7.1	7.4	6.6	4.3	7.2	7.1	5.9	5.8	6.7	6.6	4.6	5.7
* PST-5BL (SILVERADO)	5.1	5.8	7.0	6.1	6.9	7.1	5.4	6.2	6.9	6.8	4.1	7.3	7.5	6.3	5.6	6.8	5.8	5.1	6.1
* LEGEND	5.6	6.2	6.4	6.1	6.9	6.7	6.3	6.3	6.6	7.1	4.7	7.1	7.6	6.5	5.9	6.3	6.7	6.3	5.3
* JAGUAR	4.6	6.1	6.3	6.1	6.9	7.3	6.6	6.3	7.3	6.8	4.4	6.9	6.8	6.4	5.6	6.6	6.4	5.4	4.9
* TRAILBLAZER	4.2	5.8	6.7	6.0	6.9	5.6	6.4	6.4	7.1	6.9	4.2	7.5	7.4	6.3	5.9	6.7	6.3	5.3	5.2
* MESA	5.4	5.5	6.0	5.9	6.8	7.5	6.9	6.8	7.7	6.5	4.6	7.1	7.4	6.4	5.7	6.9	6.5	5.9	5.3
PST-DBC	6.3	5.9	6.2	5.8	6.9	7.3	6.7	6.3	7.0	6.6	4.5	7.0	7.2	6.3	5.7	6.4	6.2	5.1	4.9
JB-2	5.0	5.6	6.2	6.0	6.9	6.8	6.4	7.0	7.3	6.8	4.3	6.9	6.9	6.5	5.7	6.6	6.4	6.0	4.8
* OLYMPIC	5.7	6.0	6.1	6.0	6.8	6.9	6.3	6.3	6.9	6.7	4.2	7.0	6.9	6.6	5.7	6.7	5.9	6.2	4.8

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-SEVEN LOCATIONS IN THE UNITED STATES
1989 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																			
NAME	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL1	IN1	IN2	KS1	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
* PST-5F2 (WINCHESTER)	4.5	6.0	6.2	5.8	6.9	7.2	6.1	7.0	7.1	6.6	4.4	6.9	7.5	6.5	5.9	6.6	6.0	5.5	4.9
* BAR FA 7851 (BARNONE)	5.0	5.9	6.7	6.0	6.9	6.9	6.4	7.3	7.0	6.6	4.4	6.9	7.2	6.3	.	6.4	6.3	5.8	4.7
* TAURUS	5.3	5.8	6.2	6.0	6.9	6.7	6.1	6.6	6.6	6.7	4.1	6.6	7.0	6.8	5.8	6.7	6.3	5.8	5.3
* REBEL	5.8	5.3	6.2	6.0	6.9	7.1	6.2	6.9	6.6	6.4	4.6	6.7	6.8	6.3	5.8	6.8	6.0	5.3	4.6
* SUNDANCE	4.8	5.7	6.0	5.9	6.9	7.2	5.9	6.4	7.1	6.6	4.3	7.0	7.3	6.4	5.8	6.3	6.4	6.0	5.2
* TITAN	5.1	5.9	5.8	5.9	6.8	7.3	6.3	7.0	6.8	6.8	4.6	7.0	7.3	6.8	5.6	7.2	5.6	5.3	4.6
* CIMMARON	5.3	5.9	6.6	5.8	6.9	6.7	6.3	6.8	7.1	6.7	4.4	6.9	7.4	6.4	6.0	6.2	6.3	4.8	4.6
* KWS-BG-6 (TWILIGHT)	6.4	6.3	6.1	5.8	6.9	6.3	5.6	7.1	6.3	6.1	4.3	8.0	7.0	5.9	.	6.3	8.0	4.7	4.6
* TRIDENT	4.4	6.1	6.2	5.8	6.9	6.7	6.2	6.9	7.0	6.5	3.8	6.6	7.1	6.8	5.6	6.6	6.3	5.3	4.1
* ARID	6.3	5.7	6.0	6.0	6.8	7.1	6.2	6.5	6.8	6.6	4.4	6.7	6.4	6.5	5.5	6.7	6.2	5.1	4.5
* FINELAWN 5GL	5.2	5.4	6.1	5.9	6.8	6.9	6.6	6.5	6.4	6.8	4.7	6.7	7.1	6.4	5.5	6.8	5.9	5.3	4.1
* PST-5D7 (MURIETTA)	3.8	5.5	7.2	6.1	6.9	6.4	5.6	5.3	6.9	6.7	4.1	7.1	7.4	6.2	5.3	6.7	6.3	5.8	4.7
* ADVENTURE	4.7	5.4	6.4	5.8	6.9	6.6	6.2	6.7	7.1	6.8	4.2	6.9	6.7	6.6	5.5	6.3	6.0	5.5	3.9
* CAREFREE	4.3	5.7	6.3	6.0	6.9	6.2	6.7	6.8	7.2	6.7	4.6	7.2	6.9	6.2	5.7	6.5	5.6	5.9	4.6
BEL 86-1	4.2	5.3	6.3	5.9	6.8	6.5	5.9	6.8	7.2	6.3	4.4	6.6	7.3	6.5	6.0	6.6	5.8	5.3	4.8
* PICK SLD (EMPEROR)	4.7	5.9	6.6	6.0	6.9	6.6	5.6	6.3	6.0	6.4	4.2	7.3	7.6	6.1	5.8	6.1	6.1	4.8	5.1
* FALCON	4.9	5.8	5.6	5.8	6.8	6.9	6.8	6.6	6.8	5.9	4.5	6.6	6.6	6.6	5.7	6.0	5.9	5.1	3.6
* PACER	5.4	5.3	5.4	5.9	6.8	6.6	6.1	6.6	6.5	6.2	4.3	6.4	6.5	6.3	5.3	6.3	6.0	4.8	4.0
* FINELAWN I	5.3	6.0	5.7	5.6	6.6	6.3	6.7	6.8	6.5	6.3	4.1	6.2	6.8	6.5	5.5	6.3	6.0	4.9	3.4
* RICHMOND	4.9	5.9	5.6	5.8	6.7	6.5	6.1	6.3	6.5	6.3	4.5	6.3	6.6	6.2	5.5	6.4	6.0	5.8	3.8
* WILLAMETTE	5.2	5.6	5.8	5.7	6.8	5.9	6.7	6.1	6.6	6.7	4.3	6.2	6.5	6.2	5.6	6.9	5.8	3.4	3.4
FATIMA	5.0	5.8	5.2	5.8	6.7	6.8	6.6	6.2	6.1	5.9	4.2	6.1	6.4	6.4	5.4	6.4	5.5	4.8	3.6
* SYN GA (AQUARA)	5.3	5.6	5.5	5.8	6.8	6.3	6.2	6.0	6.4	6.3	4.5	6.5	6.8	5.6	5.5	6.2	5.8	4.8	3.4
* TIP	5.1	5.8	5.7	5.7	6.8	6.1	6.3	6.3	6.5	6.0	4.3	6.2	5.3	6.3	5.7	6.1	5.3	4.3	3.1
* KY-31	4.9	5.6	4.6	4.9	5.8	5.7	6.1	5.9	5.8	5.8	3.9	5.4	5.2	5.8	5.2	5.7	5.2	4.3	2.3
LSL VALUE	1.2	0.5	0.5	0.2	0.1	0.7	1.3	0.9	0.9	0.4	0.6	0.5	0.6	0.5	0.4	0.7	0.6	1.3	0.7

* COMMERCIALY AVAILABLE VARIETY

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-SEVEN LOCATIONS IN THE UNITED STATES
1989 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																		
	NJ2	NJ3	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	VA4	WA4	MEAN
HUBBARD 87	7.1	5.6	5.1	5.9	7.2	5.0	7.1	4.9	6.6	4.8	4.0	7.9	6.9	6.2	5.9	6.7	6.3	7.3	6.4
PICK 84SPN (GUARDIAN)	6.8	5.6	4.9	5.3	7.2	4.6	6.9	4.9	6.0	4.5	4.4	8.0	7.4	6.1	5.6	6.3	6.3	7.0	6.3
PE-7E (SHENANDOAH)	6.9	5.4	4.9	5.0	7.5	5.5	6.6	4.6	6.3	4.0	4.3	7.9	7.3	5.8	5.6	6.3	6.6	6.0	6.3
PE-7	7.1	5.3	4.8	5.2	7.5	5.2	6.4	4.4	6.2	4.8	3.7	7.8	7.3	5.8	5.1	5.8	5.7	6.0	6.2
PICK TF9 (CROSSFIRE)	6.8	5.6	4.4	5.2	7.2	5.8	6.4	4.4	6.8	5.0	3.9	7.7	7.1	6.0	5.4	6.3	5.9	5.3	6.2
PST-5MW	6.9	5.4	4.9	5.5	7.7	5.0	6.6	4.6	6.9	3.8	4.1	7.5	6.9	5.5	5.6	6.4	5.8	7.0	6.2
PICK DM (AVANTI)	6.5	5.3	4.3	5.1	6.7	5.3	6.8	4.9	6.1	4.6	4.1	7.6	7.1	6.2	5.8	6.6	6.2	6.3	6.1
PST-5HF (AMIGO)	6.2	5.2	5.0	5.5	7.0	4.3	6.4	4.6	6.6	4.8	3.8	7.7	7.0	5.9	5.7	6.4	6.1	5.7	6.1
PICK 127 (COCHISE)	6.8	5.3	4.7	5.7	6.8	5.1	6.5	4.7	6.1	4.5	4.0	7.6	7.5	5.9	5.0	6.2	6.2	4.7	6.1
BEL 86-2	5.4	5.2	3.9	4.7	7.3	4.5	6.4	4.8	6.6	4.4	4.2	7.4	7.0	6.3	5.9	6.7	6.6	6.7	6.1
NORMARC 25	6.0	4.9	4.8	5.3	7.0	4.7	5.9	4.5	6.6	4.5	4.0	7.5	6.9	6.3	4.8	6.2	5.7	.	6.1
AZTEC	6.9	5.5	4.6	5.0	7.0	4.8	6.5	4.4	6.2	4.4	4.1	7.9	7.0	5.6	5.3	6.4	5.8	5.7	6.1
MONARCH	6.6	5.9	5.0	4.6	7.2	5.2	6.6	4.7	6.6	4.4	3.8	7.8	7.0	5.8	5.2	6.3	5.6	5.0	6.1
NORMARC 99	6.8	5.9	4.7	5.1	6.3	5.0	6.4	4.7	5.7	4.5	4.1	7.6	7.2	5.7	6.0	6.4	6.2	5.7	6.1
PST-5AG	5.4	5.3	4.9	5.3	6.8	5.6	6.8	4.6	7.2	4.8	4.6	7.3	6.8	5.8	5.3	5.9	6.0	7.0	6.0
TRIBUTE	5.8	4.9	4.6	4.7	7.2	5.5	6.2	4.6	6.3	4.6	3.4	7.3	7.0	5.9	5.7	6.1	6.1	4.0	6.0
PST-5D1 (ELDORADO)	6.9	4.8	4.5	5.4	6.8	4.9	6.3	4.6	5.9	4.1	4.0	8.0	6.9	5.4	5.5	6.4	5.4	5.0	6.0
NORMARC 77 (PHOENIX)	6.0	4.9	4.9	5.3	7.2	4.5	5.9	4.6	6.5	4.5	4.3	7.3	6.9	6.2	5.5	6.3	5.9	5.0	6.0
THOROUGHbred	5.7	5.3	4.5	4.6	7.3	5.0	5.8	4.8	7.0	4.1	3.9	7.0	6.6	5.9	5.2	5.9	6.0	6.7	6.0
PST-5AP	5.7	4.7	4.5	4.9	7.0	5.4	5.9	4.5	6.5	5.0	4.0	7.4	6.6	5.6	5.8	6.1	6.0	6.7	6.0
REBEL II	5.6	5.4	4.7	5.1	7.2	5.0	6.1	4.5	6.9	4.8	4.3	7.1	6.5	6.2	5.5	6.1	6.0	5.0	6.0
CHIEFTAIN	6.2	4.9	4.6	5.4	7.7	5.3	6.4	4.6	6.9	4.4	3.3	7.4	6.6	5.6	5.5	6.2	6.2	5.7	6.0
BONANZA	5.2	4.6	4.9	4.8	7.7	5.3	6.1	4.4	6.8	4.4	4.1	7.6	6.9	5.9	5.2	6.3	6.0	5.3	6.0
PICK GH6 (MAVERICK II)	6.2	5.4	4.3	4.7	6.5	4.8	6.0	4.2	6.5	4.6	4.4	7.4	6.9	5.7	5.7	5.8	6.4	7.7	6.0
PST-5OL (OLYMPIC II)	5.9	5.2	4.5	5.1	6.8	5.2	6.5	4.4	6.4	4.9	4.5	7.2	6.4	5.6	5.3	6.1	6.1	6.0	6.0
WRANGLER	5.8	5.1	4.8	5.2	7.3	4.8	6.6	4.5	6.1	3.9	4.2	7.4	6.3	5.8	5.4	6.1	6.0	4.5	6.0
APACHE	5.2	4.7	4.4	4.8	7.5	5.0	6.3	4.8	6.0	4.7	3.9	7.1	6.9	5.6	5.8	6.0	5.3	6.3	6.0
PST-5DM	6.1	5.1	4.4	5.0	6.8	5.4	6.3	4.7	6.2	4.3	4.2	7.4	6.4	5.8	5.7	6.2	6.2	4.5	5.9
PST-5EN	5.1	4.4	4.9	5.0	6.8	4.5	6.0	4.9	6.3	4.5	4.0	7.1	6.6	6.2	5.5	6.1	6.3	7.0	5.9
JAGUAR II	5.1	4.7	4.5	5.1	7.0	5.4	6.3	4.7	6.4	4.7	4.1	7.2	6.7	6.0	4.9	5.9	5.8	6.3	5.9
PICK DDF (SHORTSTOP)	6.4	5.4	4.0	4.7	6.7	4.9	6.5	4.7	5.1	3.9	3.9	7.8	7.2	5.5	5.5	6.1	6.1	7.0	5.9
KWS-DUR	6.8	5.1	3.9	4.9	6.7	5.0	6.4	4.5	6.1	3.9	3.9	7.6	6.8	5.7	5.1	5.7	6.0	6.3	5.9
PST-5BL (SILVERADO)	6.7	5.1	4.0	4.5	6.8	5.4	6.8	4.4	6.4	4.2	3.5	7.8	6.5	5.7	5.5	6.2	5.6	5.7	5.9
LEGEND	6.0	4.9	4.7	5.1	7.2	4.8	6.2	4.4	5.3	4.3	4.0	7.2	6.2	5.3	5.4	5.6	5.2	5.7	5.9
JAGUAR	4.7	4.4	4.9	4.8	7.7	4.9	5.7	4.8	7.0	4.7	4.6	6.9	6.3	6.0	5.2	5.8	5.7	6.0	5.9
TRAILBLAZER	6.5	4.5	4.4	5.0	6.8	5.3	6.5	5.0	5.9	5.0	4.2	7.3	7.1	5.1	5.3	5.9	5.1	5.7	5.9
MESA	5.8	4.2	4.5	4.8	7.0	5.0	5.8	4.4	5.9	4.3	3.9	7.0	6.7	5.8	4.9	5.9	6.2	4.3	5.9
PST-DBC	5.5	4.5	4.0	5.0	7.0	4.7	5.9	4.8	5.7	4.4	4.2	7.1	6.6	5.8	5.3	5.9	5.9	5.7	5.8
JB-2	5.0	4.7	4.7	5.0	7.0	5.2	5.7	4.6	6.7	4.6	3.8	6.5	6.0	5.9	5.1	6.1	5.3	6.0	5.8
OLYMPIC	5.3	4.6	4.7	5.0	7.0	4.9	5.9	4.7	6.0	4.3	3.9	7.0	6.5	5.5	5.1	6.1	5.3	6.3	5.8

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-SEVEN LOCATIONS IN THE UNITED STATES
1989 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																		
	NJ2	NJ3	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	VA4	WA4	MEAN
PST-5F2 (WINCHESTER)	5.8	4.7	3.9	4.8	7.0	5.2	5.5	4.5	6.5	4.5	3.7	7.3	6.7	5.5	5.5	6.3	5.6	5.7	5.8
BAR FA 7851 (BARNONE)	5.0	4.9	4.2	4.7	7.0	5.0	6.1	4.4	5.7	4.7	4.1	7.4	6.8	5.6	5.1	5.2	5.3	5.0	5.8
TAURUS	5.2	4.9	4.4	4.4	6.7	5.5	5.8	4.5	5.1	5.1	3.7	7.4	6.4	5.4	5.5	5.6	5.5	6.3	5.8
REBEL	4.5	4.4	4.6	5.0	7.2	5.3	5.3	4.7	6.6	4.9	3.5	6.8	6.0	5.9	5.5	5.7	5.5	6.7	5.8
SUNDANCE	5.5	5.3	4.1	4.3	7.0	5.3	5.3	4.4	6.0	4.6	3.4	7.0	6.5	5.8	5.2	5.9	5.7	5.7	5.8
TITAN	5.0	4.8	4.4	4.9	7.0	4.9	5.7	4.5	5.8	3.8	3.8	6.6	6.3	5.8	5.3	6.1	6.0	5.0	5.8
CIMMARON	5.2	4.1	4.5	5.1	7.2	5.0	5.4	4.3	6.2	4.6	4.3	7.3	6.7	5.4	5.6	5.9	4.8	4.7	5.8
KWS-BG-6 (TWILIGHT)	6.1	4.0	3.7	4.2	6.7	5.0	5.9	4.2	5.2	5.1	4.0	7.2	6.7	4.8	5.2	5.8	5.2	6.7	5.8
TRIDENT	5.5	3.5	4.5	4.6	6.8	4.8	5.4	4.9	5.3	4.8	4.2	7.0	6.5	5.2	5.4	5.4	5.3	6.3	5.7
ARID	4.3	4.2	4.5	5.1	6.8	5.3	5.5	4.5	6.0	4.4	3.5	6.5	6.1	5.5	5.2	5.6	5.7	5.3	5.7
FINELAWN 5GL	4.5	4.6	4.0	4.8	7.2	4.9	5.8	4.6	5.2	4.4	3.5	7.0	6.5	5.6	5.3	5.6	5.5	5.0	5.6
PST-5D7 (MURIETTA)	5.8	4.0	4.2	4.5	6.7	5.0	6.3	4.2	5.8	3.8	3.3	7.3	6.5	4.5	4.9	5.7	5.3	6.7	5.6
ADVENTURE	4.3	4.6	4.4	4.7	7.2	4.4	5.9	4.9	6.0	4.6	4.1	6.5	5.8	5.3	5.1	5.7	5.2	5.0	5.6
CAREFREE	4.6	4.6	3.9	4.5	6.5	4.9	5.7	4.8	5.1	3.9	3.3	6.8	6.3	5.1	4.8	5.6	5.6	5.7	5.6
BEL 86-1	4.9	4.5	3.8	4.8	7.2	4.8	5.4	4.3	5.1	3.8	3.5	7.2	6.6	5.4	5.1	5.9	5.3	5.3	5.6
PICK SLD (EMPEROR)	5.4	4.6	3.4	4.2	6.3	5.0	5.7	4.4	5.5	4.4	4.2	7.3	6.8	5.2	4.8	5.4	5.8	4.3	5.6
FALCON	3.7	3.8	4.6	4.9	7.2	5.0	5.4	4.6	5.5	4.5	4.5	6.1	5.8	5.4	5.3	5.4	5.6	6.3	5.6
PACER	3.9	4.5	3.8	4.5	6.7	5.4	4.9	4.6	5.0	4.4	4.3	6.5	5.7	5.0	4.9	5.4	5.3	5.3	5.4
FINELAWN I	3.8	3.7	3.8	4.0	7.0	5.2	5.1	4.6	5.9	4.3	3.9	6.3	5.8	5.5	5.1	5.3	5.3	4.7	5.4
RICHMOND	3.6	3.8	3.9	4.6	6.5	5.0	5.0	4.4	5.9	4.4	4.0	6.3	5.7	5.3	4.5	5.1	5.3	5.7	5.4
WILLAMETTE	3.5	3.0	4.2	4.8	7.2	5.1	5.0	4.3	4.7	4.5	3.4	6.2	5.5	5.1	4.7	5.4	5.0	6.3	5.3
FATIMA	3.3	3.6	4.0	4.6	6.8	5.3	5.0	4.3	4.7	3.9	4.0	6.2	5.6	5.6	4.7	5.4	5.1	6.0	5.3
SYN GA (AQUARA)	3.2	3.7	3.8	4.1	7.2	4.8	5.0	4.6	4.5	4.5	3.8	5.7	5.9	5.2	4.9	5.2	5.2	5.0	5.3
TIP	3.3	3.1	3.6	3.9	6.7	4.7	4.9	4.6	5.4	4.6	4.1	5.8	5.6	5.0	4.9	5.4	4.7	6.3	5.2
KY-31	2.4	2.7	3.9	3.9	6.8	4.8	3.8	4.3	4.4	3.7	3.4	4.9	4.9	5.3	4.9	4.8	4.2	5.0	4.8
LSD VALUE	0.8	0.8	0.7	0.8	0.7	0.8	0.6	0.4	1.0	0.9	1.0	0.4	0.5	0.5	0.8	0.7	0.6	2.3	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 TALL FESCUE CULTIVARS FOR
EACH MONTH GROWN AT THIRTY-SEVEN LOCATIONS IN THE U. S
1989 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
HUBBARD 87	5.2	4.8	6.2	6.3	6.6	6.6	6.2	6.1	6.4	6.4	6.2	4.5	6.4
PICK 84SPN (GUARDIAN)	4.9	4.8	6.3	6.3	6.5	6.4	6.1	6.1	6.2	6.4	6.3	4.8	6.3
EE-7E (SHENANDOAH)	4.5	4.6	6.0	6.3	6.5	6.4	6.1	6.0	6.4	6.4	6.3	4.5	6.3
EE-7	4.8	4.5	6.1	6.2	6.3	6.4	5.9	5.9	6.3	6.3	6.0	4.3	6.2
PICK TF9 (CROSSFIRE)	5.1	4.7	6.4	6.2	6.4	6.3	6.1	6.1	6.2	6.2	6.1	4.3	6.2
EST-5MW	4.8	4.4	6.2	6.1	6.3	6.2	6.0	6.0	6.1	6.1	6.0	4.4	6.2
PICK DM (AVANTI)	5.0	4.6	6.2	6.1	6.3	6.3	6.0	5.9	6.2	6.2	6.1	4.4	6.1
EST-5HF (AMIGO)	4.7	4.6	6.0	6.0	6.3	6.3	6.0	6.0	6.1	6.2	6.3	4.4	6.1
PICK 127 (COCHISE)	4.7	4.5	6.2	6.2	6.4	6.4	6.0	6.1	6.1	6.2	6.0	4.1	6.1
EEL 86-2	5.0	4.4	6.0	6.0	6.3	6.1	6.0	5.8	6.2	6.0	6.1	4.4	6.1
NORMARC 25	4.6	4.5	5.8	6.2	6.3	6.1	6.0	5.9	6.0	5.9	6.1	4.0	6.1
AZTEC	4.7	4.6	5.9	6.0	6.3	6.3	5.9	5.9	6.1	6.4	6.1	4.3	6.1
MONARCH	4.3	4.6	6.0	6.0	6.4	6.3	6.0	6.0	6.1	6.1	6.1	4.4	6.1
NORMARC 99	4.6	4.7	6.2	6.1	6.3	6.3	5.8	5.9	6.1	6.3	6.0	4.3	6.1
TRIBUTE	4.9	4.4	6.2	6.0	6.1	6.2	6.0	5.9	6.1	6.1	6.1	4.1	6.1
EST-5AG	4.8	4.7	5.8	5.9	6.2	6.2	5.9	5.9	5.8	6.3	6.2	4.7	6.0
EST-5D1 (ELDORADO)	4.5	4.5	5.9	5.9	6.2	6.3	5.8	5.8	6.0	6.1	6.2	4.2	6.0
NORMARC 77 (PHOENIX)	5.2	4.8	5.9	5.9	6.1	6.1	5.9	5.9	6.0	6.0	5.9	4.3	6.0
THOROUGHBRED	4.9	4.7	5.7	5.9	6.1	6.0	5.8	5.9	6.0	5.9	6.1	4.6	6.0
EST-5AP	4.9	4.9	5.9	5.9	6.0	6.1	5.8	5.8	5.9	6.1	5.9	4.3	6.0
WRANGLER	5.0	4.6	5.9	5.9	6.1	6.1	5.8	5.8	5.9	6.0	6.3	4.3	6.0
REBEL II	5.1	4.8	6.0	6.0	6.0	6.1	5.9	5.8	6.0	6.1	6.0	4.4	6.0
CHIEFTAIN	4.5	4.5	5.7	5.9	6.0	6.0	5.8	5.9	6.0	6.2	6.1	4.4	6.0
BONANZA	4.9	4.7	6.0	6.1	6.3	6.0	5.8	5.8	5.9	5.9	6.0	4.1	6.0
PICK GH6 (MAVERICK II)	4.7	4.6	6.1	5.8	6.1	6.2	5.8	5.7	5.9	6.1	5.9	4.6	6.0
EST-5OL (OLYMPIC II)	5.1	4.8	6.1	5.9	6.0	6.1	5.9	5.9	6.0	6.1	6.0	4.6	6.0
EST-5DM	4.9	4.5	5.8	5.9	6.1	6.2	5.9	5.9	6.0	5.9	5.9	4.2	6.0
APACHE	5.3	4.9	5.9	5.9	6.0	6.0	5.8	5.8	5.9	5.9	5.8	4.5	6.0
EST-5EN	5.5	4.8	5.9	5.8	5.9	6.0	5.8	5.8	5.9	5.8	5.9	4.5	5.9
JAGUAR II	5.2	5.0	5.8	5.7	5.9	6.0	5.8	5.8	6.1	6.0	5.9	4.5	5.9
PICK DDF (SHORTSTOP)	4.7	4.4	5.8	5.9	6.1	6.2	5.7	5.7	5.8	6.0	5.8	4.3	5.9
KWS-DUR	4.7	4.3	5.8	5.9	6.1	6.0	5.7	5.8	5.9	6.1	6.0	4.3	5.9
EST-5BL (SILVERADO)	4.5	4.3	5.6	5.7	6.2	6.2	5.8	5.8	5.8	6.1	6.0	4.3	5.9
LEGEND	4.9	4.6	6.0	5.8	6.0	6.0	5.7	5.7	5.8	5.9	6.0	4.5	5.9
JAGUAR	5.7	5.3	6.0	5.7	5.8	5.9	5.8	5.6	5.9	5.8	5.9	4.4	5.9
TRAILBLAZER	5.2	4.7	6.0	5.9	6.3	6.2	5.5	5.7	5.7	5.8	6.1	4.3	5.9
MESA	4.7	4.6	5.9	5.9	5.9	6.1	5.9	5.7	5.9	5.8	6.0	4.1	5.9
EST-DBC	5.5	4.9	6.0	5.8	5.8	5.8	5.7	5.7	5.9	6.0	5.9	4.4	5.8
OLYMPIC	5.1	4.5	5.8	5.8	5.9	5.9	5.6	5.6	5.8	5.7	5.9	4.4	5.8
JB-2	4.7	4.7	5.8	6.0	5.8	5.8	5.7	5.7	5.7	5.7	5.9	4.4	5.8

TABLE 2. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR
EACH MONTH GROWN AT THIRTY-SEVEN LOCATIONS IN THE U. S
1989 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PST-5F2 (WINCHESTER)	5.1	4.8	5.9	5.8	5.9	5.9	5.6	5.5	5.8	5.8	5.8	4.1	5.8
BAR FA 7851 (BARNONE)	5.5	5.2	6.0	5.8	5.9	5.8	5.6	5.6	5.7	5.8	5.8	4.1	5.8
TAURUS	5.1	4.7	5.9	5.8	6.0	5.9	5.5	5.6	5.7	5.8	5.8	4.3	5.8
REBEL	5.2	5.0	5.8	5.6	5.6	5.7	5.6	5.6	5.8	5.9	6.0	4.5	5.8
SUNDANCE	5.0	4.6	5.8	5.8	6.0	5.8	5.6	5.5	5.7	5.8	5.8	4.1	5.8
TITAN	4.9	4.5	5.8	5.8	5.9	5.8	5.7	5.7	5.7	5.5	5.6	4.0	5.8
CIMMARON	5.2	4.6	5.8	5.6	5.8	5.9	5.8	5.7	5.6	5.6	5.8	4.0	5.8
KWS-BG-6 (TWILIGHT)	4.4	3.9	5.8	5.8	6.2	6.1	5.3	5.5	5.6	5.8	6.1	4.4	5.8
TRIDENT	5.9	5.0	6.0	5.5	5.6	5.7	5.5	5.4	5.7	5.5	5.7	4.4	5.7
ARID	4.9	4.5	5.5	5.4	5.6	5.6	5.6	5.7	5.8	5.8	5.9	4.4	5.7
FINELAWN 5GL	5.0	4.8	5.7	5.8	5.8	5.6	5.4	5.4	5.6	5.5	5.7	4.2	5.6
PST-5D7 (MURIETTA)	3.9	4.0	5.2	5.2	6.1	5.9	5.3	5.5	5.4	5.7	5.7	4.1	5.6
ADVENTURE	5.5	5.0	5.9	5.6	5.6	5.5	5.4	5.5	5.5	5.5	5.7	4.3	5.6
CAREFREE	4.5	4.4	5.7	5.6	5.8	5.7	5.4	5.5	5.4	5.5	5.5	4.1	5.6
BEL 86-1	4.0	4.3	5.9	5.8	5.8	5.7	5.3	5.3	5.4	5.6	5.4	3.9	5.6
PICK SLD (EMPEROR)	5.0	4.6	5.8	5.7	5.9	5.8	5.4	5.4	5.5	5.6	5.7	4.2	5.6
FALCON	5.3	5.1	5.5	5.6	5.5	5.5	5.5	5.5	5.5	5.2	5.4	4.2	5.6
PACER	4.9	5.0	5.6	5.5	5.3	5.4	5.3	5.3	5.4	5.4	5.4	4.2	5.4
FINELAWN I	5.1	4.7	5.7	5.4	5.4	5.4	5.3	5.3	5.5	5.2	5.5	4.0	5.4
RICHMOND	5.1	4.7	5.6	5.2	5.4	5.4	5.3	5.3	5.3	5.3	5.5	4.1	5.4
WILLAMETTE	4.7	4.4	5.4	5.3	5.3	5.2	5.0	5.3	5.3	5.3	5.4	4.2	5.3
FATIMA	4.8	4.4	5.4	5.2	5.3	5.4	5.2	5.2	5.3	5.0	5.2	4.1	5.3
SYN GA (AQUARA)	5.0	4.6	5.6	5.3	5.2	5.2	5.2	5.2	5.3	5.1	5.2	4.2	5.3
TIP	5.7	4.8	5.4	5.1	5.1	5.2	4.9	5.1	5.2	5.2	5.3	4.3	5.2
KY-31	4.2	4.4	5.0	4.8	4.8	4.7	4.6	4.6	4.5	4.5	4.5	3.5	4.8
LSD VALUE	0.8	0.8	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.9	0.3

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

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
CULTIVARS AT THIRTY-SEVEN LOCATIONS IN THE U.S. 1/
1989 DATA

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

NAME	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL1	IN1	IN2	KS1	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
HUBBARD 87	39.0	15.0	5.5	13.0	13.0	14.5	3.0	37.0	6.5	1.0	3.5	7.5	22.5	8.5	5.0	25.5	2.0	2.0	6.5
PICK 84SPN (GUARDIAN)	2.0	35.0	9.0	13.0	13.0	10.0	14.0	37.0	12.5	2.0	25.5	9.5	11.0	21.5	37.0	9.5	7.0	1.0	9.0
PE-7E (SHENANDOAH)	10.0	21.0	3.5	20.0	33.0	37.5	2.0	25.5	1.0	5.5	2.0	16.0	6.5	13.0	.	7.0	3.0	11.0	11.0
PE-7	33.0	5.0	14.0	6.5	13.0	1.0	39.5	5.5	3.0	3.5	17.0	13.0	3.0	15.0	41.0	3.5	5.5	4.5	15.0
PICK TF9 (CROSSFIRE)	1.0	61.5	14.0	6.5	33.0	2.5	49.0	19.5	18.5	27.5	46.0	4.0	1.0	50.0	10.0	48.5	14.0	49.0	2.0
PST-5MW	64.0	17.5	44.5	1.5	33.0	22.0	21.5	19.5	9.5	23.0	39.0	16.0	6.5	33.5	3.5	5.0	5.5	7.5	5.0
PICK DM (AVANTI)	58.5	30.0	18.0	20.0	13.0	5.5	39.5	43.0	36.0	38.0	35.5	2.0	11.0	40.5	3.5	33.5	12.0	3.0	12.0
PST-5HF (AMIGO)	8.0	30.0	14.0	20.0	48.5	27.5	51.0	31.0	6.5	18.5	39.0	11.5	17.0	36.0	50.0	2.0	37.0	19.0	13.0
PICK 127 (COCHISE)	6.5	55.5	36.0	56.0	60.5	5.5	55.5	5.5	3.0	27.5	57.5	22.0	4.5	58.0	1.5	16.0	4.0	19.0	4.0
BEL 86-2	22.0	11.5	2.0	27.5	13.0	10.0	57.0	25.5	29.0	11.0	6.0	6.0	28.5	1.0	29.5	21.0	33.5	11.0	30.5
NORMARC 25	53.0	21.0	33.0	13.0	44.0	13.0	1.0	2.0	6.5	18.5	.	20.0	33.5	24.0	.	6.0	9.0	25.5	21.5
AZTEC	24.5	43.0	7.5	6.5	13.0	17.5	51.0	11.5	22.5	8.5	46.0	3.0	4.5	11.5	6.5	33.5	21.5	37.5	3.0
MONARCH	13.5	51.0	5.5	20.0	13.0	5.5	19.5	47.5	42.5	18.5	57.5	33.5	2.0	56.5	29.5	13.0	40.0	19.0	1.0
NORMARC 99	3.0	11.5	33.0	43.0	13.0	32.0	10.0	31.0	48.0	55.0	46.0	7.5	28.5	64.0	22.5	21.0	43.5	34.5	14.0
PST-5AG	36.0	51.0	24.0	13.0	33.0	55.5	65.0	31.0	9.5	13.5	25.5	18.5	47.5	18.0	16.0	39.0	18.5	13.5	30.5
TRIBUTE	20.0	1.5	50.5	20.0	44.0	10.0	5.0	31.0	29.0	27.5	1.0	18.5	22.5	18.0	6.5	1.0	33.5	25.5	10.0
PST-5D1 (ELDORADO)	30.5	25.0	26.0	35.5	13.0	22.0	39.5	19.5	29.0	38.0	52.0	11.5	17.0	28.5	1.5	13.0	13.0	19.0	6.5
NORMARC 77 (PHOENIX)	45.0	25.0	17.0	6.5	33.0	5.5	53.0	11.5	6.5	13.5	32.5	29.5	43.0	8.5	29.5	33.5	40.0	19.0	19.0
THOROUGHbred	15.0	6.5	23.0	40.0	33.0	27.5	27.0	25.5	15.5	27.5	25.5	33.5	43.0	36.0	22.5	39.0	16.0	7.5	37.0
PST-5AP	48.0	30.0	47.0	6.5	57.5	37.5	10.0	43.0	12.5	43.5	9.0	25.5	11.0	40.5	29.5	51.5	16.0	7.5	25.0
REBEL II	17.5	35.0	21.5	1.5	33.0	14.5	39.5	43.0	22.5	18.5	32.5	48.5	33.5	3.5	18.5	30.0	25.5	47.5	34.0
CHIEFTAIN	57.0	45.5	33.0	47.0	13.0	37.5	62.0	5.5	18.5	11.0	17.0	29.5	11.0	3.5	45.0	9.5	33.5	42.5	21.5
BONANZA	19.0	41.0	28.5	43.0	52.0	32.0	58.0	52.0	15.5	3.5	25.5	50.0	17.0	28.5	16.0	21.0	10.5	32.0	16.0
PICK GH6 (MAVERICK II)	30.5	55.5	21.5	38.0	13.0	22.0	45.5	63.5	29.0	18.5	54.5	36.0	11.0	59.0	8.5	39.0	60.0	19.0	18.0
PST-5OL (OLYMPIC II)	11.0	11.5	11.0	6.5	44.0	2.5	55.5	47.5	51.0	43.5	25.5	29.5	38.0	15.0	22.5	48.5	43.5	52.0	25.0
WRANGLER	21.0	48.5	7.5	20.0	13.0	44.5	23.5	11.5	12.5	5.5	3.5	38.0	28.5	6.0	12.5	9.5	21.5	34.5	27.5
APACHE	9.0	38.5	30.0	47.0	48.5	32.0	21.5	19.5	42.5	32.5	17.0	25.5	33.5	21.5	54.0	45.5	40.0	4.5	36.0
PST-5DM	27.5	45.5	14.0	20.0	13.0	37.5	17.5	37.0	42.5	18.5	39.0	42.0	47.5	15.0	47.5	16.0	43.5	13.5	25.0
PST-5EN	13.5	3.5	.	31.5	44.0	42.5	34.0	5.5	42.5	50.0	9.0	42.0	38.0	11.5	43.0	25.5	43.5	42.5	38.0
JAGUAR II	39.0	45.5	39.5	52.5	44.0	10.0	6.0	59.0	36.0	8.5	35.5	48.5	38.0	2.0	12.5	9.5	25.5	42.5	44.0
PICK DDF (SHORTSTOP)	43.0	60.0	26.0	31.5	13.0	58.0	64.0	37.0	42.5	38.0	25.5	5.0	28.5	60.0	12.5	13.0	25.5	19.0	29.0
KWS-DUR	41.0	25.0	37.5	27.5	33.0	27.5	19.5	5.5	12.5	43.5	39.0	22.0	43.0	61.0	22.5	28.0	10.5	62.0	17.0
PST-5BL (SILVERADO)	39.0	30.0	3.5	16.0	13.0	27.5	63.0	59.0	42.5	27.5	59.0	14.0	17.0	46.0	43.0	21.0	57.0	52.0	8.0
LEGEND	17.5	3.5	26.0	6.5	33.0	47.5	31.0	52.0	53.5	7.0	6.0	25.5	11.0	28.5	18.5	56.5	8.0	7.5	21.5
JAGUAR	56.0	8.0	33.0	6.5	13.0	17.5	15.5	56.0	18.5	27.5	25.5	42.0	54.0	40.5	47.5	39.0	21.5	37.5	41.0
TRAILBLAZER	62.5	35.0	10.0	31.5	13.0	65.0	25.5	47.5	29.0	11.0	54.5	9.5	22.5	46.0	16.0	28.0	25.5	47.5	33.0
MESA	24.5	57.5	53.0	47.0	44.0	10.0	4.0	19.5	3.0	51.5	11.5	25.5	22.5	33.5	37.0	16.0	16.0	25.5	27.5
PST-DBC	6.5	21.0	44.5	52.5	33.0	17.5	10.0	52.0	36.0	46.0	17.0	33.5	38.0	50.0	37.0	48.5	37.0	52.0	39.5
JB-2	45.0	53.5	44.5	27.5	13.0	42.5	23.5	11.5	18.5	27.5	42.0	42.0	51.0	28.5	37.0	39.0	21.5	19.0	42.0
OLYMPIC	16.0	11.5	48.5	24.5	44.0	37.5	29.0	52.0	42.5	38.0	54.5	38.0	51.0	18.0	37.0	28.0	55.0	11.0	44.0

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
CULTIVARS AT THIRTY-SEVEN LOCATIONS IN THE U.S.
1989 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL1	IN1	IN2	KS1	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
PST-5F2 (WINCHESTER)	58.5	11.5	41.5	60.0	33.0	22.0	47.0	11.5	29.0	48.0	32.5	46.0	17.0	28.5	20.0	42.5	51.5	34.5	39.5
BAR FA 7851 (BARNONE)	47.0	17.5	14.0	35.5	13.0	37.5	25.5	1.0	36.0	48.0	25.5	42.0	38.0	50.0	.	48.5	29.5	30.0	46.0
TAURUS	27.5	35.0	41.5	35.5	13.0	47.5	43.5	37.0	53.5	32.5	62.0	55.0	47.5	8.5	25.5	33.5	29.5	28.0	21.5
REBEL	12.0	63.5	39.5	27.5	33.0	27.5	34.0	15.5	53.5	54.0	11.5	52.0	56.0	46.0	29.5	21.0	47.0	42.5	51.5
SUNDANCE	52.0	41.0	53.0	43.0	13.0	22.0	51.0	47.5	29.0	43.5	46.0	33.5	33.5	40.5	25.5	56.5	18.5	19.0	32.0
TITAN	42.0	25.0	56.0	47.0	57.5	17.5	29.0	11.5	48.0	27.5	9.0	38.0	28.5	5.0	47.5	3.5	62.0	42.5	50.0
CIMMARON	27.5	17.5	19.5	52.5	33.0	47.5	32.0	25.5	29.0	38.0	25.5	46.0	22.5	36.0	8.5	60.0	33.5	59.0	48.5
KWS-BG-6 (TWILIGHT)	4.0	1.5	48.5	57.0	13.0	60.0	59.0	5.5	62.0	61.0	46.0	1.0	47.5	62.0	.	56.5	1.0	61.0	51.5
TRIDENT	60.0	6.5	44.5	52.5	33.0	47.5	36.0	15.5	36.0	51.5	64.0	55.0	43.0	8.5	43.0	42.5	29.5	42.5	55.0
ARID	5.0	41.0	53.0	31.5	52.0	27.5	39.5	43.0	48.0	48.0	32.5	52.0	62.5	28.5	51.5	33.5	37.0	52.0	53.0
FINELAWN 5GL	35.0	61.5	50.5	47.0	57.5	37.5	17.5	43.0	60.5	18.5	6.0	52.0	43.0	40.5	54.0	24.0	53.5	42.5	54.0
PST-5D7 (MURIETTA)	65.0	57.5	1.0	13.0	13.0	55.5	61.0	65.0	42.5	38.0	60.5	29.5	22.5	53.0	59.0	33.5	29.5	30.0	47.0
ADVENTURE	54.5	59.0	28.5	52.5	33.0	51.0	34.0	31.0	29.0	18.5	50.5	46.0	57.0	21.5	56.5	56.5	49.0	34.5	57.0
CAREFREE	61.0	45.5	37.5	35.5	13.0	61.0	13.0	19.5	22.5	34.0	13.0	22.0	51.0	53.0	37.0	45.5	61.0	25.5	48.5
BEL 86-1	62.5	63.5	33.0	40.0	52.0	53.5	54.0	25.5	22.5	56.5	25.5	57.0	28.5	28.5	12.5	44.0	59.0	42.5	44.0
PICK SLD (EMPEROR)	54.5	17.5	19.5	24.5	13.0	51.0	60.0	56.0	64.0	53.0	54.5	16.0	11.0	56.5	29.5	63.0	46.0	56.5	35.0
FALCON	50.0	30.0	60.0	52.5	52.0	37.5	7.0	37.0	50.0	63.5	17.0	55.0	58.5	21.5	37.0	64.0	53.5	52.0	60.0
PACER	23.0	65.0	62.0	40.0	60.5	51.0	43.5	37.0	57.5	60.0	46.0	59.0	60.5	46.0	60.0	56.5	51.5	59.0	56.0
FINELAWN I	27.5	11.5	57.5	64.0	64.0	58.0	10.0	25.5	57.5	56.5	60.5	62.0	54.0	28.5	56.5	56.5	49.0	55.0	62.5
RICHMOND	50.0	25.0	59.0	60.0	63.0	53.5	45.5	56.0	57.5	58.5	17.0	60.0	58.5	55.0	54.0	51.5	49.0	30.0	58.0
WILLAMETTE	34.0	48.5	55.0	62.0	52.0	63.0	10.0	61.0	53.5	38.0	46.0	62.0	60.5	53.0	47.5	18.0	57.0	65.0	61.0
FATIMA	45.0	38.5	63.0	60.0	62.0	44.5	15.5	59.0	63.0	63.5	50.5	64.0	62.5	40.5	58.0	53.0	63.0	59.0	59.0
SYN GA (AQUARA)	32.0	53.5	61.0	58.0	57.5	58.0	39.5	62.0	60.5	58.5	17.0	58.0	54.0	65.0	51.5	61.0	57.0	56.5	62.5
TIP	37.0	35.0	57.5	63.0	55.0	62.0	29.0	52.0	57.5	62.0	39.0	62.0	64.0	46.0	33.0	62.0	64.0	63.0	64.0
KY-31	50.0	51.0	64.0	65.0	65.0	64.0	48.0	63.5	65.0	65.0	63.0	65.0	65.0	63.0	61.0	65.0	65.0	64.0	65.0

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

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 3. (continued)

 RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
 CULTIVARS AT THIRTY-SEVEN LOCATIONS IN THE U.S.
 1989 DATA

NAME	QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING																		
	NJ2	NJ3	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	VA4	WA4	MEAN
HUBBARD 87	1.0	5.0	1.0	1.0	18.5	34.5	1.0	2.0	11.5	12.0	31.0	3.5	17.5	6.5	2.0	2.0	5.0	2.0	1
PICK 84SPN (GUARDIAN)	7.5	3.0	7.0	9.5	18.5	60.0	2.0	6.0	39.0	32.5	5.0	1.5	2.0	8.0	12.0	13.0	5.0	5.0	2
PE-7E (SHENANDOAH)	5.5	8.5	10.0	23.5	6.0	4.5	6.0	24.0	24.0	55.0	10.5	5.0	3.0	23.0	12.0	13.0	1.0	26.5	3
PE-7	2.0	17.0	12.0	12.5	6.0	20.0	20.0	54.0	28.5	12.0	53.0	6.0	4.0	20.0	47.0	41.0	35.5	26.5	4
PICK TF9 (CROSSFIRE)	10.5	4.0	40.0	11.0	18.5	1.0	17.0	50.5	7.0	4.5	41.0	11.0	7.0	10.5	26.5	10.0	26.5	44.0	5
PST-5MW	4.0	8.5	7.0	4.0	2.5	38.5	8.0	35.0	5.0	63.0	25.0	17.5	17.5	43.0	14.0	7.0	28.0	5.0	6
PICK DM (AVANTI)	14.0	13.0	43.0	20.0	56.5	16.5	4.0	6.0	32.5	25.0	20.0	16.0	8.5	4.0	5.0	3.0	9.5	18.5	7
PST-5HF (AMIGO)	18.0	19.5	2.0	3.0	33.5	65.0	15.0	24.0	11.5	8.5	48.5	10.0	12.5	7.5	4.5	15.0	35.5	8	
PICK 127 (COCHISE)	7.5	13.0	19.5	2.0	46.5	25.5	11.5	20.5	30.5	29.0	31.0	13.0	1.0	16.0	52.0	17.0	9.5	58.0	9
BEL 86-2	38.5	19.5	56.5	44.5	9.0	61.5	20.0	8.0	14.0	41.0	13.0	24.0	14.0	1.5	3.0	1.0	2.0	10.5	10
NORMARC 25	22.0	25.0	13.5	7.5	33.5	57.5	36.0	45.0	15.0	34.5	36.5	17.5	22.0	1.5	61.0	17.0	33.0	.	11
AZTEC	3.0	6.0	23.5	27.0	33.5	54.5	13.5	50.5	27.0	45.0	20.0	3.5	10.5	38.5	34.5	4.5	30.5	35.5	12
MONARCH	13.0	2.0	3.0	50.5	18.5	20.0	7.0	18.0	11.5	38.5	50.0	8.0	10.5	23.0	43.0	13.0	38.5	51.5	13
NORMARC 99	9.0	1.0	16.5	15.0	64.5	30.0	20.0	15.0	48.5	34.5	20.0	15.0	6.0	31.5	1.0	7.0	9.5	35.5	14
PST-5AG	37.0	15.5	4.5	9.5	46.5	2.0	4.0	24.0	1.0	8.5	2.0	32.5	24.5	26.5	30.5	38.0	22.0	5.0	15
TRIBUTE	26.0	27.0	21.5	44.5	18.5	3.0	27.5	30.5	24.0	22.0	60.0	28.5	12.5	16.0	9.5	26.5	15.0	64.0	16
PST-5D1 (ELDORADO)	5.5	33.0	31.5	6.0	46.5	44.5	22.5	35.0	43.0	54.0	34.5	1.5	17.5	50.5	16.5	7.0	45.0	51.5	17
NORMARC 77 (PHOENIX)	23.5	30.0	10.0	7.5	18.5	61.5	34.0	30.5	19.0	32.5	7.5	32.5	17.5	4.0	22.5	13.0	26.5	51.5	18
THOROUGHbred	31.5	13.0	29.5	50.5	9.0	30.0	42.0	12.0	2.0	53.0	38.5	45.0	33.0	16.0	39.5	33.5	22.0	10.5	19
PST-5AP	31.5	37.5	26.5	32.0	33.5	9.0	39.5	41.5	16.5	3.0	36.5	24.0	33.0	34.5	5.0	26.5	22.0	10.5	20
REBEL II	33.0	8.5	16.5	17.5	18.5	38.5	31.0	41.5	4.0	12.0	9.0	40.0	41.5	4.0	22.5	26.5	22.0	51.5	21
CHIEFTAIN	18.0	27.0	21.5	5.0	2.5	16.5	17.0	30.5	6.0	41.0	63.0	19.5	36.5	38.5	19.5	19.0	9.5	35.5	22
BONANZA	43.0	41.5	10.0	37.5	2.5	14.0	29.0	47.0	8.0	37.0	22.5	13.0	17.5	16.0	39.5	13.0	22.0	44.0	23
PICK GH6 (MAVERICK II)	18.0	11.0	42.0	44.5	62.0	49.0	32.5	63.0	16.5	18.0	6.0	24.0	17.5	29.5	7.5	43.5	3.0	1.0	24
PST-5OL (OLYMPIC II)	25.0	18.0	28.0	15.0	46.5	20.0	11.5	56.5	20.5	6.5	3.5	39.0	45.5	38.5	30.5	21.5	15.0	26.5	25
WRANGLER	28.5	23.0	13.5	12.5	9.0	51.0	9.0	41.5	32.5	58.0	16.0	21.0	50.5	20.0	26.5	26.5	18.5	60.5	26
APACHE	43.0	35.5	40.0	41.0	6.0	34.5	24.0	12.0	36.0	14.0	44.5	42.5	21.0	34.5	5.0	31.0	51.0	18.5	27
PST-5DM	20.5	21.5	40.0	29.5	46.5	6.5	25.5	20.5	26.0	48.0	13.0	19.5	45.5	26.5	9.5	20.0	9.5	60.5	28
PST-5EN	45.0	49.5	7.0	23.5	46.5	63.0	32.5	3.5	24.0	26.0	31.0	42.5	33.0	6.5	22.5	30.0	5.0	5.0	29
JAGUAR II	46.0	37.5	33.5	20.0	33.5	9.0	22.5	18.0	20.5	17.0	26.5	36.5	28.5	9.0	54.0	38.0	30.5	18.5	30
PICK DDF (SHORTSTOP)	16.0	8.5	48.0	47.5	56.5	44.5	10.0	15.0	57.0	56.5	40.0	8.0	5.0	45.5	16.5	21.5	13.0	5.0	31
KWS-DUR	10.5	21.5	56.5	34.0	56.5	38.5	17.0	41.5	30.5	59.5	43.0	13.0	26.0	29.5	47.0	45.5	18.5	18.5	32
PST-5BL (SILVERADO)	12.0	24.0	50.5	55.0	46.5	9.0	4.0	47.0	22.0	52.0	57.0	8.0	44.0	31.5	16.5	17.0	38.5	35.5	33
LEGEND	23.5	30.0	16.5	17.5	18.5	54.5	27.5	54.0	53.5	48.0	34.5	36.5	52.0	53.0	26.5	52.5	58.0	35.5	34
JAGUAR	51.0	51.0	4.5	37.5	2.5	44.5	48.0	9.5	3.0	15.5	1.0	50.0	48.5	10.5	39.5	43.5	35.5	26.5	35
TRAILBLAZER	15.0	45.0	35.0	27.0	46.5	12.0	13.5	1.0	41.0	4.5	16.0	32.5	8.5	60.0	34.5	38.0	60.5	35.5	36
MESA	28.5	52.0	26.5	37.5	33.5	38.5	42.0	54.0	41.0	48.0	42.0	45.0	28.5	26.5	57.0	33.5	9.5	62.5	37
PST-DBC	36.0	47.0	50.5	29.5	33.5	59.0	39.5	9.5	48.5	41.0	13.0	41.0	36.5	20.0	34.5	33.5	25.0	35.5	38
JB-2	47.5	35.5	19.5	27.0	33.5	23.0	45.0	30.5	9.0	19.5	47.0	55.0	54.5	16.0	44.0	26.5	48.0	26.5	39
OLYMPIC	40.0	41.5	16.5	23.5	33.5	44.5	36.0	15.0	34.5	51.0	38.5	47.5	38.5	43.0	51.0	26.5	48.0	18.5	40

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
CULTIVARS AT THIRTY-SEVEN LOCATIONS IN THE U.S.
1989 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NJ2	NJ3	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	VA4	WA4	MEAN
PST-5F2 (WINCHESTER)	28.5	34.0	58.0	41.0	33.5	23.0	50.0	41.5	18.0	29.0	52.0	32.5	31.0	41.0	22.5	9.0	38.5	35.5	41
BAR FA 7851 (BARNONE)	49.0	27.0	44.0	47.5	33.5	30.0	30.0	50.5	47.0	15.5	22.5	24.0	24.5	34.5	47.0	62.5	48.0	51.5	42
TAURUS	43.0	30.0	37.0	58.0	56.5	4.5	42.0	37.5	59.0	2.0	51.0	24.0	47.0	48.0	19.5	49.5	43.0	18.5	43
REBEL	54.0	49.5	25.0	23.5	18.5	12.0	56.0	18.0	11.5	6.5	57.0	52.0	54.5	12.5	16.5	47.5	44.0	10.5	44
SUNDANCE	35.0	15.5	47.0	59.0	33.5	16.5	57.0	47.0	37.5	19.5	60.0	45.0	41.5	26.5	39.5	38.0	33.0	35.5	45
TITAN	47.5	32.0	37.0	32.0	33.5	44.5	46.0	41.5	46.0	61.0	48.5	53.0	48.5	23.0	30.5	23.0	17.0	51.5	46
CIMMARON	41.0	54.0	31.5	15.0	18.5	30.0	54.0	61.5	28.5	22.0	10.5	28.5	28.5	48.0	12.0	33.5	63.0	58.0	47
KWS-BG-6 (TWILIGHT)	20.5	55.5	63.0	60.0	56.5	30.0	36.0	64.5	55.5	1.0	31.0	36.5	28.5	64.0	39.5	42.0	58.0	10.5	48
TRIDENT	34.0	62.0	29.5	53.0	46.5	54.5	52.0	6.0	53.5	10.0	18.0	49.0	41.5	56.5	26.5	54.5	53.5	18.5	49
ARID	56.0	53.0	33.5	20.0	46.5	12.0	51.0	37.5	37.5	45.0	57.0	57.0	53.0	43.0	39.5	52.5	33.0	44.0	50
FINELAWN 5GL	53.0	39.5	50.5	35.0	18.5	48.0	44.0	27.0	55.5	36.0	54.0	47.5	38.5	38.5	34.5	51.0	42.0	51.5	51
PST-5D7 (MURIETTA)	28.5	55.5	45.5	56.0	56.5	30.0	25.5	64.5	45.0	62.0	65.0	28.5	41.5	65.0	57.0	45.5	53.5	10.5	52
ADVENTURE	55.0	43.0	37.0	44.5	18.5	64.0	38.0	3.5	34.5	22.0	24.0	55.0	58.0	53.0	50.0	47.5	56.0	51.5	53
CAREFREE	52.0	39.5	53.5	54.0	62.0	44.5	48.0	12.0	59.0	56.5	64.0	51.0	50.5	60.0	61.0	49.5	41.0	35.5	54
BEL 86-1	50.0	47.0	62.0	37.5	18.5	54.5	53.0	58.5	59.0	64.0	55.0	36.5	35.0	48.0	47.0	38.0	53.5	44.0	55
PICK SLD (EMPEROR)	38.5	44.0	65.0	61.0	64.5	38.5	48.0	56.5	51.0	45.0	16.0	28.5	23.0	56.5	61.0	57.5	29.0	62.5	56
FALCON	59.0	57.5	23.5	32.0	18.5	30.0	55.0	35.0	50.0	29.0	3.5	62.0	58.0	50.5	30.5	56.0	38.5	18.5	57
PACER	57.0	47.0	59.5	57.0	56.5	6.5	63.5	24.0	61.0	38.5	7.5	55.0	60.0	62.5	54.0	59.5	48.0	44.0	58
FINELAWN I	58.0	59.0	61.0	63.0	33.5	23.0	58.0	24.0	44.0	50.0	44.5	58.0	58.0	45.5	47.0	61.0	53.5	58.0	59
RICHMOND	60.0	57.5	53.5	50.5	62.0	38.5	60.0	50.5	41.0	43.0	28.0	59.0	61.0	55.0	65.0	64.0	48.0	35.5	60
WILLAMETTE	61.0	64.0	45.5	41.0	18.5	25.5	60.0	60.0	62.0	29.0	60.0	60.5	64.0	60.0	64.0	59.5	62.0	18.5	61
FATIMA	62.0	61.0	50.5	50.5	46.5	16.5	62.0	61.5	63.0	59.5	31.0	60.5	62.5	34.5	63.0	54.5	60.5	26.5	62
SYN GA (AQUARA)	64.0	60.0	59.5	62.0	18.5	51.0	60.0	30.5	64.0	29.0	46.0	64.0	56.0	58.0	57.0	62.5	58.0	51.5	63
TIP	63.0	63.0	64.0	65.0	56.5	57.5	63.5	30.5	52.0	24.0	26.5	63.0	62.5	62.5	54.0	57.5	64.0	18.5	64
KY-31	65.0	65.0	55.0	64.0	46.5	51.0	65.0	58.5	65.0	65.0	62.0	65.0	65.0	53.0	59.0	65.0	65.0	51.5	65

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

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 4. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	GA1	NE1	NJ2	NJ3	OH2	OK1	MEAN
PICK 127 (COCHISE)	8.7	8.7	6.3	8.3	6.3	7.0	7.3	7.5
NORMARC 99	8.3	8.7	6.7	8.3	6.7	7.0	7.0	7.5
PICK 84SPN (GUARDIAN)	8.3	8.3	6.7	7.3	7.0	7.0	7.0	7.4
KWS-BG-6 (TWILIGHT)	9.0	8.3	6.7	7.0	6.0	7.0	7.3	7.3
PICK TF9 (CROSSFIRE)	7.3	9.0	6.7	6.7	6.3	7.7	7.7	7.3
PICK DDF (SHORTSTOP)	8.0	8.7	6.3	6.3	7.3	7.0	6.7	7.2
PST-5MW	7.7	8.0	6.3	7.3	6.3	7.0	7.3	7.1
AZTEC	7.0	8.0	6.0	7.3	6.7	7.0	7.7	7.1
PICK DM (AVANTI)	6.7	8.7	6.0	7.7	6.7	7.3	6.7	7.1
HUBBARD 87	7.0	8.3	6.3	7.0	6.3	7.0	7.0	7.0
PE-7	7.7	8.0	6.3	7.0	6.3	7.0	6.3	7.0
PE-7E (SHENANDOAH)	7.3	8.0	6.3	6.7	6.7	7.3	6.3	7.0
PST-5D1 (ELDORADO)	7.3	8.0	6.3	7.3	5.7	7.3	6.3	6.9
PICK SLD (EMPEROR)	8.0	8.0	5.7	6.0	6.0	7.0	7.0	6.8
MONARCH	7.0	8.7	6.0	7.0	5.3	7.0	6.7	6.8
PST-5BL (SILVERADO)	7.7	8.7	6.0	4.7	6.7	7.0	7.0	6.8
PICK GH6 (MAVERICK II)	6.3	7.7	6.0	6.3	6.7	7.3	7.0	6.8
TRAILBLAZER	6.7	8.0	5.7	6.7	6.7	7.0	6.7	6.8
KWS-DUR	8.3	8.0	6.0	6.0	6.0	7.3	5.3	6.7
PST-5HF (AMIGO)	6.3	8.3	6.0	7.3	6.0	7.0	6.0	6.7
BONANZA	6.7	8.0	6.0	7.0	6.0	7.0	6.0	6.7
LEGEND	5.7	8.3	5.7	6.3	6.3	7.3	6.3	6.6
NORMARC 25	6.0	8.3	6.0	6.0	5.3	7.0	7.3	6.6
SUNDANCE	6.3	8.0	6.3	6.3	6.0	7.0	6.0	6.6
MESA	6.0	8.0	6.3	6.3	4.7	7.0	7.7	6.6
PST-5OL (OLYMPIC II)	6.0	8.0	6.0	5.7	6.0	7.0	7.0	6.5
PST-DBC	7.0	8.0	5.7	5.7	5.0	7.0	7.3	6.5
BEL 86-1	6.0	8.0	6.0	6.7	5.0	7.0	6.7	6.5
TAURUS	7.0	7.7	5.7	6.7	5.7	7.0	5.7	6.5
BAR FA 7851 (BARNONE)	7.0	8.0	5.7	4.7	6.3	7.0	6.3	6.4
TRIBUTE	6.3	8.3	6.0	5.0	6.0	7.0	6.3	6.4
PST-5D7 (MURIETTA)	7.7	8.7	6.0	4.7	5.0	7.0	6.0	6.4
PST-5DM	6.7	8.0	5.7	5.3	6.7	7.0	5.7	6.4
CHIEFTAIN	6.0	8.0	5.7	5.3	5.7	7.0	7.0	6.4
PST-5AG	6.3	8.0	5.7	5.3	5.7	7.3	6.3	6.4
BEL 86-2	6.0	8.3	5.7	5.7	5.3	7.0	6.0	6.3
TRIDENT	7.0	8.0	5.7	5.3	4.3	7.0	6.7	6.3
NORMARC 77 (PHOENIX)	6.0	8.3	5.7	6.0	4.7	7.3	5.7	6.2
PST-5F2 (WINCHESTER)	6.3	7.7	5.3	5.3	5.7	7.0	6.3	6.2
TITAN	6.7	8.0	5.0	5.3	5.0	7.0	6.7	6.2

TABLE 4. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS
(continued) 1989 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

NAME	AR1	GA1	NE1	NJ2	NJ3	OH2	OK1	MEAN
PST-5EN	6.0	8.0	6.0	4.7	5.3	7.0	6.3	6.2
APACHE	5.0	8.0	5.7	5.7	5.3	7.0	6.3	6.1
REBEL II	6.3	8.0	6.0	4.7	5.3	7.0	5.7	6.1
CIMMARON	5.7	8.0	5.7	4.7	4.7	7.0	7.0	6.1
OLYMPIC	6.3	8.0	5.3	5.0	5.0	7.0	6.0	6.1
WRANGLER	5.7	8.0	5.3	6.3	5.3	7.0	5.0	6.1
PST-5AP	5.7	7.7	5.7	5.7	5.0	7.0	5.7	6.0
CAREFREE	5.3	8.0	5.3	5.3	5.0	7.0	6.0	6.0
JB-2	5.7	8.0	5.7	5.0	5.0	7.0	5.3	6.0
THOROUGHbred	5.0	8.0	5.3	5.7	4.7	6.7	6.3	6.0
JAGUAR II	6.0	8.0	5.3	3.7	5.0	7.0	6.3	5.9
FINELAWN 5GL	4.7	7.3	4.7	5.0	6.0	7.0	6.3	5.9
RICHMOND	5.0	7.3	5.3	5.0	4.7	7.0	5.7	5.7
PACER	5.0	7.7	5.0	3.7	4.3	7.0	7.0	5.7
ADVENTURE	5.3	7.7	5.0	3.7	4.0	7.0	6.3	5.6
REBEL	4.3	8.0	5.3	3.7	4.3	7.0	6.3	5.6
ARID	5.0	7.3	5.0	3.0	5.0	7.0	6.3	5.5
FINELAWN I	5.7	7.0	4.7	4.0	4.7	7.0	5.7	5.5
JAGUAR	5.7	7.7	5.3	4.0	3.7	6.7	5.7	5.5
FALCON	4.7	8.0	5.3	3.7	3.3	7.0	5.7	5.4
SYN GA (AQUARA)	4.7	7.3	5.0	3.0	3.7	7.0	6.7	5.3
WILLAMETTE	5.3	7.0	4.7	4.0	3.0	7.0	6.0	5.3
FATIMA	5.3	7.7	4.7	3.0	3.7	6.7	5.7	5.2
TIP	4.0	7.7	4.7	2.3	3.0	7.0	6.3	5.0
KY-31	4.0	7.0	4.0	2.3	2.7	6.3	5.3	4.5
LSD VALUE	1.2	0.7	0.9	1.5	1.4	0.4	1.6	0.4

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

TABLE 5. SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	MO3	MEAN
PICK 127 (COCHISE)	6.7	6.7
PICK DDF (SHORTSTOP)	6.7	6.7
PICK TF9 (CROSSFIRE)	6.7	6.7
KWS-BG-6 (TWILIGHT)	6.3	6.3
BONANZA	6.0	6.0
PICK DM (AVANTI)	6.0	6.0
PICK SLD (EMPEROR)	6.0	6.0
BAR FA 7851 (BARNONE)	5.7	5.7
BEL 86-1	5.7	5.7
HUBBARD 87	5.7	5.7
KWS-DUR	5.7	5.7
PE-7E (SHENANDOAH)	5.7	5.7
PICK 84SPN (GUARDIAN)	5.7	5.7
PST-5AP	5.7	5.7
PST-DBC	5.7	5.7
SUNDANCE	5.7	5.7
BEL 86-2	5.3	5.3
JAGUAR II	5.3	5.3
JB-2	5.3	5.3
LEGEND	5.3	5.3
MESA	5.3	5.3
MONARCH	5.3	5.3
PICK GH6 (MAVERICK II)	5.3	5.3
PST-5D1 (ELDORADO)	5.3	5.3
PST-5DM	5.3	5.3
PST-5EN	5.3	5.3
WRANGLER	5.3	5.3
ADVENTURE	5.0	5.0
APACHE	5.0	5.0
AZTEC	5.0	5.0
CIMMARON	5.0	5.0
PST-5BL (SILVERADO)	5.0	5.0
PST-5D7 (MURIETTA)	5.0	5.0
PST-5MW	5.0	5.0
REBEL	5.0	5.0
TAURUS	5.0	5.0
FALCON	4.7	4.7
FATIMA	4.7	4.7
NORMARC 77 (PHOENIX)	4.7	4.7
NORMARC 99	4.7	4.7

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	MO3	MEAN
PE-7	4.7	4.7
PST-5AG	4.7	4.7
PST-5F2 (WINCHESTER)	4.7	4.7
SYN GA (AQUARA)	4.7	4.7
TRAILBLAZER	4.7	4.7
TRIBUTE	4.7	4.7
CAREFREE	4.3	4.3
CHIEFTAIN	4.3	4.3
FINELAWN 5GL	4.3	4.3
NORMARC 25	4.3	4.3
OLYMPIC	4.3	4.3
PST-5HF (AMIGO)	4.3	4.3
REBEL II	4.3	4.3
THOROUGHBRED	4.3	4.3
TITAN	4.3	4.3
TRIDENT	4.3	4.3
JAGUAR	4.0	4.0
PST-5OL (OLYMPIC II)	4.0	4.0
WILLAMETTE	4.0	4.0
ARID	3.7	3.7
FINELAWN I	3.7	3.7
KY-31	3.7	3.7
RICHMOND	3.7	3.7
PACER	3.3	3.3
TIP	3.3	3.3
LSD VALUE	1.7	1.7

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

TABLE 6. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	CA3	ID2	MO3	NJ3	OH2	MEAN
KWS-BG-6 (TWILIGHT)	7.7	6.0	7.7	7.0	5.7	4.7	6.4
PICK TF9 (CROSSFIRE)	7.3	6.0	7.0	7.0	6.3	4.3	6.3
REBEL II	7.0	6.0	7.0	6.3	6.0	4.0	6.1
AZTEC	7.0	6.0	7.0	6.0	5.7	4.3	6.0
MONARCH	7.3	6.0	6.0	6.7	6.0	4.0	6.0
NORMARC 99	6.7	6.0	7.0	5.7	7.0	3.7	6.0
WRANGLER	6.0	6.0	8.0	5.7	6.0	4.0	5.9
HUBBARD 87	5.7	6.0	7.3	6.3	5.7	4.0	5.8
TAURUS	7.3	5.3	7.7	5.3	5.3	4.0	5.8
PICK 84SPN (GUARDIAN)	5.7	6.0	7.0	5.7	6.0	4.3	5.8
KWS-DUR	6.0	6.0	7.0	6.3	5.3	4.0	5.8
PST-5AG	5.0	6.0	8.0	5.7	6.3	3.7	5.8
THOROUGHbred	6.3	6.0	7.7	5.3	5.7	3.7	5.8
PE-7E (SHENANDOAH)	5.7	6.0	6.7	5.7	5.7	4.7	5.7
EST-5DM	6.0	6.0	7.3	5.0	5.7	4.3	5.7
EST-DBC	5.7	5.3	7.7	6.0	5.7	4.0	5.7
TRAILBLAZER	4.3	5.7	7.3	6.7	6.0	4.3	5.7
EEL 86-2	6.3	6.0	7.0	5.0	6.0	4.0	5.7
EST-5HF (AMIGO)	5.7	5.7	7.0	5.7	5.7	4.3	5.7
CAREFREE	5.0	6.0	6.7	5.7	6.0	4.7	5.7
FINELAWN 5GL	6.0	5.7	7.0	5.3	5.7	4.3	5.7
PE-7	5.3	6.0	6.3	6.0	5.7	4.7	5.7
PICK 127 (COCHISE)	6.7	6.0	6.0	5.0	6.3	4.0	5.7
PICK DDF (SHORTSTOP)	5.7	6.0	6.7	5.3	6.7	3.7	5.7
REBEL	7.7	6.0	7.0	4.7	4.3	4.3	5.7
EST-5OL (OLYMPIC II)	6.0	6.0	6.7	5.7	5.3	4.0	5.6
PST-5D1 (ELDORADO)	5.3	5.7	7.3	6.3	5.3	3.7	5.6
APACHE	6.3	5.7	6.3	5.7	4.7	4.7	5.6
LEGEND	6.7	5.7	7.3	5.3	4.7	3.7	5.6
NORMARC 25	5.3	6.0	7.3	5.7	4.7	4.3	5.6
EST-5BL (SILVERADO)	5.7	5.7	7.0	5.7	5.7	3.7	5.6
PST-5D7 (MURIETTA)	4.7	6.0	6.7	5.3	6.3	4.3	5.6
OLYMPIC	6.3	5.7	6.0	6.0	5.3	4.0	5.6
BAR FA 7851 (BARNONE)	4.7	6.0	7.0	5.7	5.3	4.3	5.5
CIMMARON	6.0	6.0	6.3	5.3	5.3	4.0	5.5
JAGUAR	4.3	6.0	8.0	5.7	5.3	3.7	5.5
JB-2	5.0	5.7	7.3	5.7	5.3	4.0	5.5
SUNDANCE	6.0	5.7	7.0	5.7	4.3	4.3	5.5
TITAN	5.7	5.7	7.3	5.3	5.0	4.0	5.5
BONANZA	4.3	5.7	6.7	5.7	6.3	4.0	5.4

TABLE 6. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS
(continued) 1989 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	AR1	CA3	ID2	MO3	NJ3	OH2	MEAN
EST-5EN	6.0	6.0	5.7	5.0	5.7	4.3	5.4
EST-5MW	4.3	5.7	6.7	5.7	6.0	4.3	5.4
TRIBUTE	5.7	5.0	7.0	5.7	5.3	4.0	5.4
ARID	6.3	6.0	6.3	5.3	5.0	3.7	5.4
PACER	6.0	5.3	6.7	5.3	5.3	4.0	5.4
PICK DM (AVANTI)	5.3	6.0	6.0	5.3	6.0	4.0	5.4
PICK GH6 (MAVERICK II)	5.0	6.0	6.0	6.0	6.0	3.7	5.4
JAGUAR II	5.0	5.7	7.0	5.3	5.7	3.7	5.4
MESA	6.0	5.3	6.7	5.7	4.7	4.0	5.4
CHIEFTAIN	5.0	6.0	6.3	5.7	5.3	4.0	5.4
FINELAWN I	5.3	5.3	7.3	5.7	4.0	4.3	5.3
ADVENTURE	4.0	5.7	7.3	5.7	5.3	3.7	5.3
EST-5F2 (WINCHESTER)	5.3	5.7	5.3	5.3	5.3	4.3	5.2
FALCON	5.3	5.7	6.0	6.0	4.0	4.0	5.2
NORMARC 77 (PHOENIX)	5.3	6.0	6.0	5.7	4.0	4.0	5.2
EST-5AP	5.0	5.3	6.3	5.3	5.0	4.0	5.2
BEL 86-1	3.7	6.0	6.3	6.0	4.7	4.0	5.1
WILLAMETTE	6.0	5.0	6.7	5.7	3.0	4.0	5.1
FATIMA	5.3	5.7	6.0	5.3	3.7	3.7	4.9
TIP	6.3	5.0	7.0	4.3	3.3	3.7	4.9
TRIDENT	4.7	5.7	6.0	6.0	3.0	4.0	4.9
PICK SLD (EMPEROR)	4.3	5.3	6.3	5.0	5.0	3.0	4.8
RICHMOND	4.7	5.3	6.3	4.7	4.0	3.7	4.8
SYN GA (AQUARA)	5.0	5.3	6.0	4.7	3.7	3.7	4.7
KY-31	6.0	4.0	6.3	5.3	3.3	3.3	4.7
LSD VALUE	2.1	0.6	1.6	1.1	1.3	0.9	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 7. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	CA1	ID2	WA4	MEAN
TRIDENT	6.3	6.0	6.3	8.0	6.7	6.7
KWS-BG-6 (TWILIGHT)	7.7	6.0	5.7	7.3	6.3	6.6
PACER	6.0	5.7	5.3	7.3	7.0	6.3
PST-5AP	6.0	5.7	6.0	6.3	7.3	6.3
REBEL	6.0	5.0	6.0	7.0	7.3	6.3
PST-5MW	6.7	5.3	6.0	6.7	6.3	6.2
LEGEND	5.7	6.0	6.0	6.7	6.3	6.1
PE-7E (SHENANDOAH)	7.3	5.7	6.0	6.7	5.0	6.1
PST-5OL (OLYMPIC II)	6.3	5.7	6.0	6.7	6.0	6.1
TRAILBLAZER	6.0	6.3	6.0	5.7	6.7	6.1
JB-2	6.0	6.3	6.3	6.3	5.5	6.1
BAR FA 7851 (BARNONE)	5.7	6.0	6.3	6.7	5.7	6.1
PST-5D1 (ELDORADO)	6.0	5.7	6.0	6.7	6.0	6.1
JAGUAR II	5.3	6.0	6.0	6.0	7.0	6.1
NORMARC 77 (PHOENIX)	6.3	6.0	6.0	6.3	5.7	6.1
NORMARC 99	6.7	5.0	6.0	6.3	6.3	6.1
CAREFREE	6.0	5.3	5.3	7.3	6.3	6.1
AZTEC	6.3	5.3	6.0	6.7	5.7	6.0
FALCON	5.7	5.3	6.0	7.0	6.0	6.0
NORMARC 25	6.7	5.7	5.7	6.0	.	6.0
PST-5BL (SILVERADO)	6.3	5.7	6.0	6.7	5.3	6.0
FINELAWN I	5.0	6.0	5.3	7.3	6.3	6.0
PICK GH6 (MAVERICK II)	6.0	5.7	5.7	6.7	5.7	5.9
PICK DM (AVANTI)	6.0	5.0	6.0	7.7	5.0	5.9
PST-5HF (AMIGO)	5.7	5.3	6.3	6.7	5.7	5.9
TRIBUTE	5.7	6.0	6.0	7.0	5.0	5.9
ADVENTURE	6.0	5.0	6.3	7.0	5.3	5.9
REBEL II	5.3	5.3	6.0	6.7	6.3	5.9
PST-5EN	5.3	5.3	.	6.3	6.7	5.9
PE-7	6.0	5.7	6.0	5.7	6.0	5.9
PST-5DM	5.7	6.0	6.0	6.7	5.0	5.9
ARID	5.0	5.0	6.0	7.3	6.0	5.9
CIMMARON	6.0	5.3	6.0	6.3	5.7	5.9
PICK DDF (SHORTSTOP)	6.0	5.0	6.0	7.0	5.3	5.9
PST-5AG	6.3	5.3	5.7	7.0	5.0	5.9
BONANZA	5.7	5.7	6.0	6.0	5.7	5.8
APACHE	6.3	5.3	5.7	5.7	6.0	5.8
CHIEFTAIN	5.3	5.0	6.0	6.7	6.0	5.8
PICK 127 (COCHISE)	6.0	5.7	5.7	6.3	5.3	5.8
PST-5D7 (MURIETTA)	5.7	6.0	6.3	5.7	5.3	5.8

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	CA1	ID2	WA4	MEAN
TITAN	5.0	6.0	5.7	7.0	5.3	5.8
KWS-DUR	6.3	5.7	5.3	7.3	4.3	5.8
BEL 86-2	5.7	5.3	6.0	5.7	6.0	5.7
HUBBARD 87	5.7	5.3	6.0	6.7	5.0	5.7
JAGUAR	5.3	6.0	5.7	6.0	5.7	5.7
RICHMOND	5.7	5.7	5.3	6.3	5.7	5.7
TAURUS	6.0	5.3	5.7	6.7	5.0	5.7
PICK SLD (EMPEROR)	6.3	6.0	5.3	6.0	5.0	5.7
PST-5F2 (WINCHESTER)	5.3	5.3	6.0	7.0	5.0	5.7
PST-DBC	6.0	5.3	6.0	6.3	5.0	5.7
WRANGLER	5.0	5.7	6.0	6.3	5.5	5.7
SYN GA (AQUARA)	5.7	5.0	5.7	6.7	5.3	5.7
PICK 84SPN (GUARDIAN)	6.0	5.7	5.3	5.0	6.3	5.7
SUNDANCE	6.0	5.3	6.0	6.0	5.0	5.7
MESA	5.3	5.0	5.7	6.7	5.3	5.6
PICK TF9 (CROSSFIRE)	6.3	5.3	5.7	6.0	4.7	5.6
FINELAWN 5GL	5.0	5.3	6.0	6.7	4.7	5.5
MONARCH	6.0	5.0	6.0	5.3	5.3	5.5
THOROUGHbred	5.3	5.3	5.7	5.7	5.7	5.5
TIP	5.0	5.7	5.3	6.3	5.3	5.5
WILLAMETTE	5.3	5.3	6.0	5.3	5.7	5.5
FATIMA	5.3	5.0	5.0	6.7	5.3	5.5
OLYMPIC	5.0	5.3	6.0	5.7	5.3	5.5
BEL 86-1	5.0	5.3	5.3	5.7	5.7	5.4
KY-31	5.3	5.3	5.0	5.7	4.7	5.2
LSD VALUE	1.1	0.8	0.6	1.6	1.8	0.6

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

TABLE 8. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
PICK 84SPN (GUARDIAN)	7.0	7.7	7.3	7.7	5.3	7.0
PICK TF9 (CROSSFIRE)	6.7	7.7	7.0	7.3	5.7	6.9
HUBBARD 87	6.0	8.0	7.0	7.3	6.0	6.9
MONARCH	6.0	8.0	7.0	7.0	6.0	6.8
KWS-BG-6 (TWILIGHT)	6.3	8.0	7.0	7.7	4.7	6.7
REBEL II	7.0	7.3	7.0	7.3	5.0	6.7
KWS-DUR	5.7	8.0	7.0	7.7	5.0	6.7
APACHE	6.3	8.0	7.0	7.3	4.3	6.6
ARID	7.3	7.3	7.0	7.3	4.0	6.6
BEL 86-2	6.3	8.0	7.0	7.0	4.7	6.6
NORMARC 99	6.3	8.0	6.7	7.0	5.0	6.6
PICK 127 (COCHISE)	6.0	8.0	6.3	7.0	5.7	6.6
PICK GH6 (MAVERICK II)	5.7	8.0	7.0	7.3	5.0	6.6
PST-5HF (AMIGO)	6.0	8.0	7.0	6.0	6.0	6.6
SUNDANCE	5.0	8.0	7.0	8.0	5.0	6.6
AZTEC	5.0	8.0	7.0	7.7	5.0	6.5
PE-7E (SHENANDOAH)	5.3	8.0	7.3	7.0	5.0	6.5
TRIBUTE	6.0	8.0	6.3	7.3	5.0	6.5
PST-5OL (OLYMPIC II)	5.3	7.7	7.0	7.0	5.3	6.5
NORMARC 25	5.7	8.0	6.7	7.3	4.3	6.4
TAURUS	6.0	8.0	6.7	7.0	4.3	6.4
OLYMPIC	6.7	7.3	6.7	7.0	4.0	6.3
PE-7	5.0	7.3	6.7	7.7	5.0	6.3
PST-5BL (SILVERADO)	4.7	8.0	8.0	6.3	4.7	6.3
MESA	6.0	8.0	7.0	7.3	3.3	6.3
PICK SLD (EMPEROR)	4.3	8.0	7.3	7.0	5.0	6.3
THOROUGHbred	5.3	7.3	7.0	7.0	5.0	6.3
TRAILBLAZER	4.3	7.3	7.0	8.0	5.0	6.3
CAREFREE	4.7	8.0	6.7	7.3	4.7	6.3
BONANZA	5.7	7.7	6.7	7.3	4.0	6.3
FINELAWN 5GL	5.0	8.0	7.0	7.0	4.3	6.3
JAGUAR II	5.3	7.7	6.7	7.3	4.3	6.3
NORMARC 77 (PHOENIX)	5.0	8.0	6.7	7.3	4.3	6.3
PST-5MW	4.0	7.7	7.3	7.3	5.0	6.3
PST-5D1 (ELDORADO)	4.7	8.0	6.7	7.0	4.7	6.2
BAR FA 7851 (BARNONE)	4.3	8.0	7.0	7.0	4.7	6.2
JB-2	5.3	7.7	6.3	7.7	4.0	6.2
PICK DDF (SHORTSTOP)	4.7	7.3	6.7	7.0	5.3	6.2
PST-5AG	4.7	7.0	7.0	7.3	5.0	6.2
PST-5DM	5.3	7.0	6.7	7.3	4.7	6.2

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
PST-DBC	6.0	8.0	7.0	6.0	4.0	6.2
CIMMARON	5.0	7.7	6.7	7.0	4.3	6.1
PST-5AP	4.7	8.0	6.7	7.0	4.3	6.1
PST-5F2 (WINCHESTER)	4.3	8.0	6.7	7.0	4.7	6.1
CHIEFTAIN	4.3	8.0	6.3	7.3	4.7	6.1
PST-5D7 (MURIELTA)	3.3	7.3	7.3	7.3	5.3	6.1
PST-5EN	5.7	7.7	.	7.0	4.0	6.1
PICK DM (AVANTI)	4.3	7.3	7.0	7.7	4.0	6.1
ADVENTURE	4.0	7.7	7.0	6.7	4.7	6.0
SYN GA (AQUARA)	5.7	7.0	6.7	7.0	3.7	6.0
FINELAWN I	5.0	8.0	7.0	7.0	3.0	6.0
REBEL	6.3	7.0	6.0	7.0	3.7	6.0
JAGUAR	5.0	7.3	6.3	7.0	4.3	6.0
LEGEND	5.0	7.0	7.0	7.0	3.7	5.9
TITAN	5.7	6.3	6.3	6.7	4.7	5.9
WRANGLER	5.3	6.0	7.0	6.7	4.7	5.9
PACER	5.0	7.3	6.3	7.3	3.7	5.9
BEL 86-1	4.3	7.3	6.3	6.7	4.7	5.9
FALCON	5.7	7.0	6.3	7.0	3.3	5.9
WILLAMETTE	5.0	7.3	7.0	7.0	3.0	5.9
TIP	5.0	7.3	6.3	7.3	3.3	5.9
RICHMOND	4.7	7.0	6.7	7.3	3.3	5.8
FATIMA	5.0	7.7	6.0	6.7	3.3	5.7
TRIDENT	4.0	7.3	6.3	7.0	3.3	5.6
KY-31	5.3	6.3	5.3	6.3	2.3	5.1
LSD VALUE	2.0	0.9	0.8	0.9	1.2	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 9. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
PICK TF9 (CROSSFIRE)	8.0	6.3	8.3	6.0	5.7	6.9
PST-5HF (AMIGO)	7.3	6.7	8.7	6.0	5.7	6.9
PST-5DM	6.0	6.0	8.7	6.7	6.7	6.8
REBEL II	6.7	6.0	8.7	6.7	5.7	6.7
BEL 86-2	6.3	6.3	8.7	6.3	6.0	6.7
MESA	6.0	6.7	8.0	7.7	5.0	6.7
NORMARC 99	6.7	7.0	7.7	6.3	5.7	6.7
TRIBUTE	6.3	6.7	8.0	6.7	5.7	6.7
PE-7	6.0	6.3	8.3	7.0	5.3	6.6
PE-7E (SHENANDOAH)	6.0	7.0	8.3	6.7	5.0	6.6
PICK 127 (COCHISE)	7.3	5.7	7.3	7.0	5.7	6.6
PICK 84SPN (GUARDIAN)	7.3	6.0	8.3	7.3	4.0	6.6
PST-5AG	5.7	6.0	8.7	6.7	6.0	6.6
PICK DM (AVANTI)	5.0	6.3	8.7	6.7	6.0	6.5
AZTEC	6.7	6.3	7.3	7.0	5.3	6.5
SUNDANCE	5.7	6.7	8.3	7.3	4.7	6.5
THOROUGHbred	6.3	6.7	8.0	6.3	5.3	6.5
ARID	7.7	6.0	7.3	7.0	4.3	6.5
WRANGLER	6.0	6.0	8.0	6.0	6.3	6.5
KWS-DUR	5.0	6.3	8.0	7.3	5.7	6.5
LEGEND	5.7	7.0	8.0	6.3	5.0	6.4
NORMARC 25	6.0	6.0	7.3	7.0	5.7	6.4
NORMARC 77 (PHOENIX)	5.7	6.3	7.7	7.0	5.3	6.4
PST-5OL (OLYMPIC II)	5.7	6.0	8.7	6.7	5.0	6.4
TAURUS	6.0	6.7	7.3	7.0	5.0	6.4
MONARCH	6.7	6.3	6.7	6.0	6.0	6.3
PICK GH6 (MAVERICK II)	6.0	5.7	8.0	6.3	5.7	6.3
PST-DBC	7.0	6.0	8.0	5.7	5.0	6.3
APACHE	6.3	6.0	8.0	6.0	5.3	6.3
HUBBARD 87	5.7	6.0	8.3	6.3	5.3	6.3
CAREFREE	5.0	6.0	8.0	7.7	4.7	6.3
CIMMARON	6.0	7.0	7.7	5.7	5.0	6.3
PST-5BL (SILVERADO)	6.3	6.0	8.3	5.7	5.0	6.3
PST-5D7 (MURIETTA)	4.7	6.3	9.0	6.0	5.3	6.3
PST-5MW	4.7	6.3	8.0	6.3	6.0	6.3
KWS-BG-6 (TWILIGHT)	6.3	6.0	7.7	7.0	4.0	6.2
OLYMPIC	7.0	5.7	7.3	6.3	4.7	6.2
PST-5AP	5.7	6.3	7.7	6.3	5.0	6.2
BONANZA	5.7	6.3	7.7	6.0	5.0	6.1
FINELAWN 5GL	5.7	6.3	7.3	6.7	4.7	6.1

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
PST-5F2 (WINCHESTER)	4.7	7.0	7.7	6.3	5.0	6.1
JAGUAR II	6.0	5.3	7.3	7.0	5.0	6.1
PST-5EN	6.3	6.3	.	6.3	5.3	6.1
PST-5D1 (ELDORADO)	5.3	6.0	7.7	6.3	5.0	6.1
TITAN	5.7	6.0	6.7	6.0	5.7	6.0
CHIEFTAIN	4.0	6.0	7.3	7.0	5.7	6.0
JB-2	5.0	6.0	7.0	7.0	5.0	6.0
PICK SLD (EMPEROR)	5.3	5.3	7.7	6.7	5.0	6.0
PICK DDF (SHORTSTOP)	5.0	6.3	7.0	6.3	5.3	6.0
REBEL	6.7	5.0	8.0	6.3	3.7	5.9
BAR FA 7851 (BARNONE)	5.3	6.0	7.7	6.3	4.3	5.9
PACER	5.7	5.0	7.0	7.0	4.7	5.9
FINELAWN I	5.3	6.0	7.3	6.7	4.0	5.9
WILLAMETTE	5.7	6.0	6.7	6.0	4.3	5.7
FALCON	5.7	6.0	6.3	6.3	4.3	5.7
FATIMA	5.3	6.3	6.7	6.0	4.3	5.7
TIP	5.3	6.0	7.0	7.0	3.3	5.7
TRAILBLAZER	4.7	5.7	7.7	6.3	4.3	5.7
JAGUAR	5.3	5.0	7.7	5.7	4.7	5.7
ADVENTURE	4.3	5.3	7.7	6.7	4.3	5.7
RICHMOND	5.3	5.0	7.3	6.7	4.0	5.7
SYN GA (AQUARA)	5.7	5.3	6.7	6.0	4.3	5.6
BEL 86-1	4.0	5.0	7.3	6.0	4.3	5.3
TRIDENT	4.0	5.7	7.3	6.3	3.0	5.3
KY-31	5.7	5.7	5.3	5.0	2.7	4.9
LSD VALUE	1.8	0.9	1.6	0.9	1.5	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 10. FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	CA1	MO3	OK1	MEAN
NORMARC 99	6.7	7.3	7.7	7.7	6.7	7.2
PICK 84SPN (GUARDIAN)	6.0	6.7	8.0	8.7	6.3	7.1
PE-7E (SHENANDOAH)	6.3	7.0	8.0	8.0	6.0	7.1
PST-50L (OLYMPIC II)	6.0	6.3	8.0	8.3	6.7	7.1
ARID	5.3	6.3	7.3	8.3	7.7	7.0
APACHE	6.3	6.3	7.7	8.0	6.3	6.9
KWS-BG-6 (TWILIGHT)	5.3	7.0	7.3	9.0	6.0	6.9
PST-DBC	6.3	6.3	7.7	7.7	6.7	6.9
AZTEC	5.0	7.0	7.7	8.0	6.7	6.9
LEGEND	5.3	7.0	7.7	8.0	6.0	6.8
MESA	5.0	7.0	7.7	8.0	6.3	6.8
TIP	5.7	6.0	7.7	7.7	7.0	6.8
TRIBUTE	5.0	6.7	7.7	7.7	7.0	6.8
WRANGLER	5.0	6.0	8.0	8.0	7.0	6.8
PE-7	5.0	6.0	7.7	7.7	7.3	6.7
PST-5HF (AMIGO)	5.3	6.7	7.7	7.7	6.3	6.7
THOROUGHbred	5.3	6.7	8.0	7.7	6.0	6.7
PICK 127 (COCHISE)	5.3	6.0	7.7	8.0	6.7	6.7
PST-5AG	4.3	6.0	8.0	8.7	6.7	6.7
MONARCH	5.0	6.3	8.0	7.7	6.3	6.7
PACER	5.0	6.0	7.0	8.3	7.0	6.7
PST-5BL (SILVERADO)	4.7	6.0	8.0	7.3	7.3	6.7
PST-5D1 (ELDORADO)	5.0	6.0	7.7	8.3	6.3	6.7
TAURUS	4.7	7.0	8.0	7.3	6.3	6.7
CAREFREE	3.7	6.0	8.0	9.0	6.7	6.7
NORMARC 77 (PHOENIX)	4.3	6.3	7.7	8.3	6.7	6.7
BEL 86-2	4.0	6.7	8.0	8.0	6.3	6.6
CHIEFTAIN	4.7	6.3	8.0	8.0	6.0	6.6
FINELAWN I	5.3	6.0	6.3	8.0	7.3	6.6
JB-2	4.7	6.0	7.0	8.3	7.0	6.6
KWS-DUR	4.7	6.3	8.0	8.0	6.0	6.6
PICK TF9 (CROSSFIRE)	5.7	6.3	8.0	7.0	6.0	6.6
REBEL II	4.7	6.3	7.3	7.7	7.0	6.6
RICHMOND	5.0	6.0	7.7	8.0	6.3	6.6
SUNDANCE	4.3	6.3	7.7	8.3	6.3	6.6
PICK DDF (SHORTSTOP)	4.7	6.3	7.7	8.0	6.0	6.5
PICK GH6 (MAVERICK II)	4.7	6.0	7.3	8.3	6.3	6.5
REBEL	4.7	6.0	7.7	7.3	7.0	6.5
TRIDENT	3.7	6.3	7.7	8.7	6.3	6.5
CIMMARON	4.3	6.0	7.7	8.0	6.7	6.5

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	AZ1	CA1	MO3	OK1	MEAN
FATIMA	5.0	6.3	7.0	8.0	6.3	6.5
JAGUAR	4.3	6.3	8.0	7.3	6.7	6.5
PST-5D7 (MURIETTA)	3.3	6.3	8.3	8.0	6.7	6.5
PST-5MW	3.0	7.0	7.3	8.0	7.3	6.5
PST-5EN	5.3	6.0	.	8.0	6.7	6.5
BONANZA	4.0	6.0	8.0	8.0	6.3	6.5
PICK DM (AVANTI)	3.3	6.7	7.7	8.0	6.7	6.5
PICK SLD (EMPEROR)	4.0	6.0	8.0	8.0	6.3	6.5
PST-5AP	4.7	6.0	7.7	8.0	6.0	6.5
PST-5F2 (WINCHESTER)	4.0	6.3	7.7	7.7	6.7	6.5
WILLAMETTE	4.7	6.3	7.7	8.0	5.7	6.5
FALCON	4.0	6.0	7.3	8.3	6.7	6.5
JAGUAR II	4.3	6.3	8.0	7.7	6.0	6.5
FINELAWN 5GL	4.7	6.0	6.7	8.0	6.7	6.4
HUBBARD 87	3.3	6.7	7.7	8.0	6.3	6.4
SYN GA (AQUARA)	5.3	5.7	7.3	7.0	6.7	6.4
BAR FA 7851 (BARNONE)	4.3	6.0	7.7	8.0	5.7	6.3
OLYMPIC	4.7	6.0	7.7	8.0	5.3	6.3
PST-5DM	4.3	6.3	8.0	8.0	5.0	6.3
TRAILBLAZER	3.3	6.0	8.0	8.0	6.0	6.3
ADVENTURE	4.3	6.0	7.7	8.0	5.3	6.3
BEL 86-1	3.3	6.0	7.3	7.7	6.7	6.2
NORMARC 25	3.3	6.0	8.0	8.0	5.7	6.2
TITAN	4.7	6.0	7.7	7.3	5.3	6.2
KY-31	3.7	5.3	5.7	6.7	7.0	5.7
LSD VALUE	1.7	0.7	0.8	0.7	1.7	0.5

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

TABLE 11. PERCENT LIVING GROUND COVER (SPRING)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/

NAME	AZ1	MO1	OK1	MEAN
PE-7E (SHENANDOAH)	95.0	96.3	97.7	96.3
TITAN	92.3	99.0	97.7	96.3
MESA	95.0	95.0	97.7	95.9
FATIMA	95.0	94.7	96.3	95.3
THOROUGHbred	95.0	91.7	99.0	95.2
CHIEFTAIN	95.0	93.3	96.3	94.9
FINELAWN 5GL	95.0	97.7	91.0	94.6
KY-31	93.3	91.3	99.0	94.6
PST-5MW	95.0	91.7	96.0	94.2
PST-5F2 (WINCHESTER)	95.0	89.7	97.7	94.1
BONANZA	95.0	93.0	94.3	94.1
JB-2	93.3	90.0	99.0	94.1
MONARCH	95.0	88.0	99.0	94.0
TAURUS	95.0	88.0	99.0	94.0
JAGUAR	95.0	93.0	93.0	93.7
KWS-DUR	95.0	86.7	99.0	93.6
TRIBUTE	95.0	91.7	93.3	93.3
PICK GH6 (MAVERICK II)	95.0	86.7	97.7	93.1
LEGEND	95.0	88.3	96.0	93.1
ARID	93.3	91.7	93.3	92.8
BAR FA 7851 (BARNONE)	95.0	90.0	93.0	92.7
NORMARC 77 (PHOENIX)	95.0	95.0	88.0	92.7
PST-5AG	93.3	85.0	99.0	92.4
OLYMPIC	95.0	88.3	93.0	92.1
PICK 127 (COCHISE)	95.0	88.3	93.0	92.1
SUNDANCE	95.0	88.3	93.0	92.1
TRAILBLAZER	90.0	90.0	96.0	92.0
CAREFREE	95.0	96.0	84.7	91.9
NORMARC 25	95.0	86.7	93.3	91.7
PE-7	95.0	93.3	86.7	91.7
REBEL II	93.3	93.3	88.3	91.7
CIMMARON	95.0	86.7	92.7	91.4
APACHE	95.0	81.3	97.7	91.3
PST-5DM	92.3	88.3	93.0	91.2
BEL 86-1	95.0	85.0	93.0	91.0
JAGUAR II	93.3	88.3	91.3	91.0
KWS-BG-6 (TWILIGHT)	95.0	86.7	91.3	91.0
NORMARC 99	95.0	88.3	89.7	91.0
PST-5D1 (ELDORADO)	95.0	91.3	86.7	91.0
RICHMOND	95.0	90.0	88.0	91.0

PERCENT LIVING GROUND COVER (SPRING)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	AZ1	MO1	OK1	MEAN
FINELAWN I	95.0	93.0	84.7	90.9
PACER	95.0	84.7	93.0	90.9
PICK TF9 (CROSSFIRE)	93.3	83.3	96.0	90.9
TIP	95.0	91.7	84.7	90.4
TRIDENT	95.0	86.7	89.7	90.4
PST-5EN	95.0	93.3	83.0	90.4
WRANGLER	90.0	89.3	91.7	90.3
ADVENTURE	95.0	88.3	86.3	89.9
PST-5HF (AMIGO)	95.0	93.0	81.3	89.8
HUBBARD 87	95.0	86.7	86.7	89.4
REBEL	92.3	91.3	84.7	89.4
PICK DM (AVANTI)	95.0	83.3	89.7	89.3
PST-5AP	95.0	86.7	86.0	89.2
PST-5BL (SILVERADO)	95.0	80.0	92.7	89.2
WILLAMETTE	90.0	94.7	83.0	89.2
PST-5D7 (MURIETTA)	93.3	85.0	88.3	88.9
AZTEC	95.0	80.0	91.3	88.8
PST-5OL (OLYMPIC II)	95.0	85.0	86.3	88.8
BEL 86-2	95.0	83.3	84.7	87.7
PST-DBC	95.0	81.7	86.0	87.6
PICK 84SPN (GUARDIAN)	95.0	90.0	76.7	87.2
SYN GA (AQUARA)	95.0	86.7	79.7	87.1
FALCON	95.0	78.3	86.7	86.7
PICK DDF (SHORTSTOP)	95.0	88.3	74.7	86.0
PICK SLD (EMPEROR)	95.0	83.0	70.0	82.7
LSD VALUE	2.7	11.2	19.7	7.6

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 12. PERCENT LIVING GROUND COVER (SUMMER)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/

NAME	AZ1	MEAN
ARID	95.0	95.0
BEL 86-2	95.0	95.0
BONANZA	95.0	95.0
CHIEFTAIN	95.0	95.0
CIMMARON	95.0	95.0
FALCON	95.0	95.0
FATIMA	95.0	95.0
FINELAWN 5GL	95.0	95.0
FINELAWN I	95.0	95.0
KWS-BG-6 (TWILIGHT)	95.0	95.0
KWS-DUR	95.0	95.0
KY-31	95.0	95.0
LEGEND	95.0	95.0
NORMARC 25	95.0	95.0
NORMARC 99	95.0	95.0
PACER	95.0	95.0
PE-7E (SHENANDOAH)	95.0	95.0
PICK 84SPN (GUARDIAN)	95.0	95.0
PST-5DM	95.0	95.0
PST-5F2 (WINCHESTER)	95.0	95.0
PST-5HF (AMIGO)	95.0	95.0
PST-5MW	95.0	95.0
REBEL II	95.0	95.0
TAURUS	95.0	95.0
TITAN	95.0	95.0
TRIDENT	95.0	95.0
WILLAMETTE	95.0	95.0
APACHE	93.3	93.3
AZTEC	93.3	93.3
BAR FA 7851 (BARNONE)	93.3	93.3
MONARCH	93.3	93.3
OLYMPIC	93.3	93.3
PE-7	93.3	93.3
PICK TF9 (CROSSFIRE)	93.3	93.3
PST-5AG	93.3	93.3
PST-5AP	93.3	93.3
PST-5BL (SILVERADO)	93.3	93.3
PST-5EN	93.3	93.3
PST-5OL (OLYMPIC II)	93.3	93.3
PST-5BC	93.3	93.3

PERCENT LIVING GROUND COVER (SUMMER)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	AZ1	MEAN
SUNDANCE	93.3	93.3
THOROUGHbred	93.3	93.3
TRAILBLAZER	93.3	93.3
TRIBUTE	93.3	93.3
REBEL	92.7	92.7
JAGUAR	92.3	92.3
HUBBARD 87	91.7	91.7
NORMARC 77 (PHOENIX)	91.7	91.7
PICK GH6 (MAVERICK II)	91.7	91.7
PST-5D1 (ELDORADO)	91.7	91.7
TIP	91.7	91.7
CAREFREE	90.0	90.0
MESA	90.0	90.0
PICK DM (AVANTI)	90.0	90.0
PICK DDF (SHORTSTOP)	88.3	88.3
PICK SLD (EMPEROR)	88.3	88.3
PST-5D7 (MURIETTA)	88.3	88.3
ADVENTURE	86.7	86.7
BEL 86-1	85.0	85.0
RICHMOND	85.0	85.0
JAGUAR II	83.3	83.3
SYN GA (AQUARA)	83.3	83.3
JB-2	81.7	81.7
PICK 127 (COCHISE)	81.7	81.7
WRANGLER	81.7	81.7
LSD VALUE	9.9	9.9

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

TABLE 13. PERCENT LIVING GROUND COVER (FALL)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/

NAME	AZ1	MEAN
APACHE	95.0	95.0
ARID	95.0	95.0
AZTEC	95.0	95.0
BAR FA 7851 (BARNONE)	95.0	95.0
BEL 86-2	95.0	95.0
CAREFREE	95.0	95.0
CHIEFTAIN	95.0	95.0
CIMMARON	95.0	95.0
FALCON	95.0	95.0
FATIMA	95.0	95.0
FINELAWN I	95.0	95.0
HUBBARD 87	95.0	95.0
JAGUAR	95.0	95.0
JAGUAR II	95.0	95.0
JB-2	95.0	95.0
KWS-BG-6 (TWILIGHT)	95.0	95.0
KY-31	95.0	95.0
LEGEND	95.0	95.0
MESA	95.0	95.0
MONARCH	95.0	95.0
NORMARC 25	95.0	95.0
NORMARC 99	95.0	95.0
OLYMPIC	95.0	95.0
PACER	95.0	95.0
PE-7	95.0	95.0
PE-7E (SHENANDOAH)	95.0	95.0
PICK 84SPN (GUARDIAN)	95.0	95.0
PICK DM (AVANTI)	95.0	95.0
PICK GH6 (MAVERICK II)	95.0	95.0
PICK SLD (EMPEROR)	95.0	95.0
PICK TF9 (CROSSFIRE)	95.0	95.0
PST-5AG	95.0	95.0
PST-5AP	95.0	95.0
PST-5BL (SILVERADO)	95.0	95.0
PST-5D1 (ELDORADO)	95.0	95.0
PST-5D7 (MURIELTA)	95.0	95.0
PST-5DM	95.0	95.0
PST-5EN	95.0	95.0
PST-5F2 (WINCHESTER)	95.0	95.0
PST-5HF (AMIGO)	95.0	95.0

PERCENT LIVING GROUND COVER (FALL)
 RATINGS OF TALL FESCUE CULTIVARS
 1989 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	AZ1	MEAN
PST-5MW	95.0	95.0
PST-DBC	95.0	95.0
REBEL	95.0	95.0
REBEL II	95.0	95.0
SUNDANCE	95.0	95.0
TAURUS	95.0	95.0
THOROUGHBRED	95.0	95.0
TITAN	95.0	95.0
TRAILBLAZER	95.0	95.0
TRIBUTE	95.0	95.0
TRIDENT	95.0	95.0
WILLAMETTE	95.0	95.0
ADVENTURE	93.3	93.3
BONANZA	93.3	93.3
NORMARC 77 (PHOENIX)	93.3	93.3
PST-5OL (OLYMPIC II)	93.3	93.3
RICHMOND	93.3	93.3
WRANGLER	93.3	93.3
TIP	92.7	92.7
KWS-DUR	92.3	92.3
FINELAWN 5GL	91.7	91.7
PICK 127 (COCHISE)	91.7	91.7
PICK DDF (SHORTSTOP)	90.0	90.0
SYN GA (AQUARA)	90.0	90.0
BEL 86-1	85.0	85.0
LSD VALUE	3.0	3.0

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

TABLE 14. FUSARIUM PATCH RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

FUSARIUM RATINGS 1-9; 9=NO DISEASE 1/			
NAME	ID2	OR2	MEAN
KY-31	7.3	6.3	6.8
BAR FA 7851 (BARNONE)	7.0	5.3	6.2
TIP	7.0	5.3	6.2
NORMARC 25	6.7	5.0	5.8
THOROUGHBRED	6.7	5.0	5.8
APACHE	6.3	5.3	5.8
NORMARC 77 (PHOENIX)	6.3	5.0	5.7
OLYMPIC	6.3	5.0	5.7
FALCON	6.7	4.3	5.5
PST-5EN	6.0	5.0	5.5
ADVENTURE	4.7	6.0	5.3
BEL 86-1	6.7	4.0	5.3
PST-5F2 (WINCHESTER)	6.7	4.0	5.3
WILLAMETTE	6.7	4.0	5.3
PICK DM (AVANTI)	5.3	5.3	5.3
PST-5OL (OLYMPIC II)	6.3	4.3	5.3
PE-7	6.7	3.7	5.2
CAREFREE	4.3	6.0	5.2
FINELAWN I	5.3	5.0	5.2
PACER	5.0	5.3	5.2
RICHMOND	5.3	5.0	5.2
TITAN	5.0	5.3	5.2
BEL 86-2	5.3	4.7	5.0
CIMMARON	6.0	4.0	5.0
HUBBARD 87	5.0	5.0	5.0
JAGUAR	4.7	5.3	5.0
MESA	5.7	4.3	5.0
PICK 84SPN (GUARDIAN)	5.7	4.3	5.0
PST-5DM	5.3	4.7	5.0
REBEL	6.0	4.0	5.0
MONARCH	5.3	4.3	4.8
SUNDANCE	6.0	3.7	4.8
TRIDENT	3.7	6.0	4.8
JB-2	5.7	3.7	4.7
PICK 127 (COCHISE)	4.7	4.7	4.7
PST-5AP	4.7	4.7	4.7
TRAILBLAZER	4.7	4.7	4.7
NORMARC 99	5.0	4.3	4.7
PICK TF9 (CROSSFIRE)	5.3	4.0	4.7
SYN GA (AQUARA)	5.0	4.3	4.7

FUSARIUM PATCH RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

FUSARIUM RATINGS 1-9; 9=NO DISEASE

NAME	ID2	OR2	MEAN
AZTEC	4.7	4.3	4.5
BONANZA	5.0	4.0	4.5
CHIEFTAIN	5.0	4.0	4.5
FATIMA	5.0	4.0	4.5
PST-5MW	4.7	4.3	4.5
FINELAWN 5GL	4.0	4.7	4.3
KWS-BG-6 (TWILIGHT)	5.7	3.0	4.3
JAGUAR II	3.3	5.3	4.3
TAURUS	4.3	4.3	4.3
KWS-DUR	4.7	3.7	4.2
PST-5D1 (ELDORADO)	4.7	3.7	4.2
PST-DBC	2.7	5.7	4.2
TRIBUTE	4.3	4.0	4.2
ARID	4.0	4.0	4.0
LEGEND	4.7	3.3	4.0
PST-5AG	3.7	4.3	4.0
PST-5HF (AMIGO)	3.7	4.3	4.0
REBEL II	4.7	3.3	4.0
PICK DDF (SHORTSTOP)	2.7	5.0	3.8
PE-7E (SHENANDOAH)	4.0	3.3	3.7
PICK GH6 (MAVERICK II)	4.0	3.0	3.5
PICK SLD (EMPEROR)	3.3	3.7	3.5
WRANGLER	4.0	2.7	3.3
PST-5BL (SILVERADO)	3.0	2.7	2.8
PST-5D7 (MURIETTA)	2.3	2.7	2.5
LSD VALUE	2.4	1.9	1.5

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

TABLE 15. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

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

NAME	AR1	AZ1	IN1	NJ1	VA3	VA4	MEAN
PICK TF9 (CROSSFIRE)	7.7	5.3	8.3	4.7	8.3	6.0	6.7
PICK 84SPN (GUARDIAN)	7.3	5.3	8.0	5.7	7.7	5.0	6.5
BEL 86-2	6.3	5.0	8.3	4.7	8.0	6.3	6.4
EST-5EN	6.0	5.7	7.0	4.7	8.0	7.0	6.4
MESA	6.0	5.0	7.7	4.3	8.0	7.0	6.3
EE-7E (SHENANDOAH)	6.7	5.7	7.3	5.3	7.7	5.3	6.3
EST-5HF (AMIGO)	8.3	5.3	6.0	5.0	7.7	5.7	6.3
THOROUGHBRED	7.0	5.3	6.3	4.7	8.0	6.7	6.3
APACHE	8.0	5.7	7.3	4.3	8.0	4.7	6.3
ARID	7.3	5.7	7.7	4.3	8.0	4.7	6.3
JAGUAR II	6.0	5.3	8.0	5.3	8.0	5.0	6.3
TRIBUTE	5.7	5.3	7.3	6.0	8.0	5.3	6.3
NORMARC 99	7.0	6.0	6.0	4.0	7.7	6.7	6.2
REBEL	6.0	5.0	8.0	5.0	8.0	5.3	6.2
FALCON	5.0	5.3	8.7	4.0	7.7	6.3	6.2
EST-5OL (OLYMPIC II)	6.7	5.7	6.3	5.3	7.7	5.3	6.2
PICK 127 (COCHISE)	6.3	5.0	6.7	5.0	8.3	5.3	6.1
AZTEC	5.7	5.3	8.7	4.7	8.7	3.7	6.1
TITAN	5.0	6.0	8.0	4.3	8.0	5.3	6.1
HUBBARD 87	5.0	5.3	8.7	4.7	8.0	4.7	6.1
EST-5D1 (ELDORADO)	5.7	5.7	6.3	6.0	8.3	4.3	6.1
WRANGLER	6.7	5.3	7.3	3.7	8.0	5.3	6.1
EST-5DM	5.7	5.3	7.7	4.0	7.7	5.7	6.0
EST-DBC	7.0	5.0	7.0	4.3	7.7	5.0	6.0
JAGUAR	5.0	5.3	7.7	4.7	7.7	5.3	5.9
JB-2	5.0	5.3	7.7	4.7	8.0	5.0	5.9
NORMARC 25	4.7	5.3	7.7	4.7	7.7	5.3	5.9
NORMARC 77 (PHOENIX)	4.7	5.3	6.7	5.0	8.3	5.3	5.9
EE-7	6.0	5.3	7.0	4.7	8.0	4.3	5.9
REBEL II	6.0	5.7	7.0	4.7	7.7	4.3	5.9
FINELAWN 5GL	5.7	5.0	7.3	4.0	8.0	5.0	5.8
MONARCH	5.7	5.7	6.0	5.3	8.0	4.3	5.8
PICK GH6 (MAVERICK II)	5.7	5.7	6.3	3.7	7.3	6.3	5.8
EST-5AP	5.3	5.7	6.7	4.0	7.7	5.7	5.8
EST-5MW	4.0	5.7	7.0	5.3	8.3	4.7	5.8
CHIEFTAIN	4.7	5.3	5.7	4.7	8.0	6.3	5.8
KY-31	5.0	6.0	8.7	3.7	6.7	4.7	5.8
PACER	6.3	5.0	7.0	4.0	7.3	5.0	5.8
PICK DM (AVANTI)	4.3	4.3	6.7	4.7	8.7	6.0	5.8
EST-5BL (SILVERADO)	6.0	5.0	6.0	4.7	8.0	4.7	5.7

TABLE 15. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
(continued) 1989 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE							
NAME	AR1	AZ1	IN1	NJ1	VA3	VA4	MEAN
EST-5F2 (WINCHESTER)	4.7	6.0	6.3	4.0	7.7	5.7	5.7
BONANZA	6.7	5.3	6.7	4.3	7.3	4.0	5.7
SYN GA (AQUARA)	5.7	5.3	7.0	3.3	8.0	5.0	5.7
RICHMOND	5.0	5.3	7.0	4.0	7.3	5.3	5.7
FATIMA	5.0	6.0	7.7	2.7	7.7	4.7	5.6
EST-5AG	5.7	5.3	6.7	4.7	7.3	4.0	5.6
SUNDANCE	4.0	5.0	7.3	4.7	8.3	4.3	5.6
LEGEND	6.3	6.0	6.0	4.0	7.3	4.0	5.6
KWS-DUR	5.3	5.7	7.0	4.3	7.3	3.7	5.6
ADVENTURE	5.0	5.0	7.0	4.0	7.3	4.7	5.5
CIMMARON	6.0	5.7	6.3	3.7	7.0	4.3	5.5
BAR FA 7851 (BARNONE)	5.0	5.7	6.7	4.0	7.0	4.3	5.4
OLYMPIC	6.3	5.3	6.7	2.7	7.7	4.0	5.4
PICK SLD (EMPEROR)	5.7	5.3	6.3	3.0	7.7	4.7	5.4
TAURUS	5.3	5.3	5.3	4.7	7.7	3.7	5.3
CAREFREE	4.7	5.7	5.3	3.0	6.7	6.3	5.3
PICK DDF (SHORTSTOP)	5.7	5.0	6.0	3.0	7.7	4.3	5.3
WILLAMETTE	5.3	5.0	7.0	2.7	7.7	3.7	5.2
FINELAWN I	5.3	5.0	6.3	2.3	7.3	4.7	5.2
TIP	4.7	5.7	6.0	3.3	6.7	4.3	5.1
TRIDENT	4.7	5.7	6.7	2.3	8.0	3.3	5.1
BEL 86-1	4.0	4.3	5.3	3.0	7.3	5.7	4.9
TRAILBLAZER	4.3	5.3	5.0	2.7	7.7	3.3	4.7
KWS-BG-6 (TWILIGHT)	5.3	6.0	3.7	1.3	7.0	4.3	4.6
EST-5D7 (MURIETTA)	4.0	4.7	4.0	2.0	6.7	4.3	4.3
LSD VALUE	1.8	1.1	1.9	1.6	1.1	2.0	0.7

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

TABLE 16. VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

VERTICAL GROWTH RATINGS 1-9; 9=LEAST GROWTH 1/

NAME	VA3	MEAN
HUBBARD 87	8.0	8.0
PICK 127 (COCHISE)	8.0	8.0
PICK TF9 (CROSSFIRE)	8.0	8.0
AZTEC	7.7	7.7
KWS-DUR	7.7	7.7
NORMARC 25	7.7	7.7
PST-5BL (SILVERADO)	7.7	7.7
PST-5DM	7.7	7.7
PST-5HF (AMIGO)	7.7	7.7
MONARCH	7.3	7.3
NORMARC 77 (PHOENIX)	7.3	7.3
PE-7	7.3	7.3
PE-7E (SHENANDOAH)	7.3	7.3
PICK 84SPN (GUARDIAN)	7.3	7.3
PICK DDF (SHORTSTOP)	7.3	7.3
PICK SLD (EMPEROR)	7.3	7.3
PST-5AG	7.3	7.3
PST-5D1 (ELDORADO)	7.3	7.3
PST-5D7 (MURIETTA)	7.3	7.3
PST-5MW	7.3	7.3
TRAILBLAZER	7.3	7.3
TRIBUTE	7.3	7.3
WRANGLER	7.3	7.3
APACHE	7.0	7.0
BAR FA 7851 (BARNONE)	7.0	7.0
BEL 86-1	7.0	7.0
BONANZA	7.0	7.0
CHIEFTAIN	7.0	7.0
CIMMARON	7.0	7.0
JAGUAR II	7.0	7.0
LEGEND	7.0	7.0
OLYMPIC	7.0	7.0
PICK DM (AVANTI)	7.0	7.0
PST-5OL (OLYMPIC II)	7.0	7.0
TAURUS	7.0	7.0
THOROUGHBRED	7.0	7.0
ARID	6.7	6.7
BEL 86-2	6.7	6.7
KWS-BG-6 (TWILIGHT)	6.7	6.7
NORMARC 99	6.7	6.7

VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS
1989 DATA

VERTICAL GROWTH RATINGS 1-9; 9=LEAST GROWTH

NAME	VA3	MEAN
PICK GH6 (MAVERICK II)	6.7	6.7
PST-5F2 (WINCHESTER)	6.7	6.7
PST-DBC	6.7	6.7
SUNDANCE	6.7	6.7
TITAN	6.7	6.7
ADVENTURE	6.3	6.3
FINELAWN 5GL	6.3	6.3
MESA	6.3	6.3
PST-5EN	6.3	6.3
REBEL II	6.3	6.3
WILLAMETTE	6.3	6.3
JAGUAR	6.0	6.0
JB-2	6.0	6.0
PST-5AP	6.0	6.0
REBEL	6.0	6.0
FALCON	5.7	5.7
SYN GA (AQUARA)	5.7	5.7
CAREFREE	5.3	5.3
FATIMA	5.3	5.3
TRIDENT	5.3	5.3
PACER	5.0	5.0
RICHMOND	5.0	5.0
TIP	5.0	5.0
FINELAWN I	4.7	4.7
KY-31	4.3	4.3
LSD VALUE	1.2	1.2

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