

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 1988

<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
District of Columbia	National Mall	DC2
Idaho	Post Falls	ID2
Illinois	Urbana	IL1
Indiana	West Lafayette	IN1
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	St. Louis	MO3
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
Washington	Ritzville	WA4
Washington	Mukilteo	WA5
Washington	Yakima	WA6

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)	Northrup King Co.
3	Trident	Seed Research of Oregon	38	Jaguar	Zajac Performance Seeds
4	Titan	Seed Research of Oregon	39	PST-DBC	Pure-Seed Testing, Inc.
5	Pick DDF (Shortstop)	Pickseed West, Inc.	40	Olympic	Turf-Seed, Inc.
6	Pick 127 (Cochise)	Pickseed West, Inc.	41	Jaguar II	Zajac Performance Seeds
7	Pick 845PN (Guardian)	Pickseed West, Inc.	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	Pure-Seed Testing, Inc.
10	PE-7E (Shenandoah)	Reed Funk - Rutgers	45	Pick DM (Avanti)	Pickseed West, Inc.
11	Hubbard 87	Reed Funk - Rutgers	46	Normarc 99	Normarc, Inc.
12	Syn Ga	O. M. Scott & Sons	47	Pacer	International Seeds, Inc.
13	Legend	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	Van der Have Oregon, Inc.	52	Bel 86-1	Jack Murray - USDA, ARS
18	Normarc 25	Reed Funk - Rutgers	53	Bel 86-2	Jack Murray - USDA, ARS
19	Normarc 77 (Phoenix)	Reed Funk - Rutgers	54	PST-5EN	Pure-Seed Testing, Inc.
20	KWS-DUR	KWS-Einbeck	55	PST-5F2 (Winchester)	E. F. Burlingham
21	KWS-BG-6 (Twilight)	KWS-Einbeck	56	Finelawn 5GL	Finelawn Research Corp.
22	Willamette	Willamette Seed & Grain	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-50L	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	Cenex Seed Plant	65	Falcon	E. F. Burlingham
31	PST-5AG	Pure-Seed Testing, Inc.			
32	PST-5BL (Silverado)	Pure-Seed Testing, Inc.			
33	PST-5MW	Pure-Seed Testing, Inc.			
34	Trailblazer	LESCO, Inc.			
35	PST-5D1 (Eldorado)	Pure-Seed Testing, Inc.			

TABLE A.

1988 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	5.6-6.0	61-150	151-240	3.1-4.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
AZ1	SANDY LOAM	7.6-8.5	-	-	-	FULL SUN	1.6-2.0	TO PREVENT STRESS
CA1	LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
CA2	SANDY LOAM	6.6-7.0	-	-	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
CA3	SANDY LOAM	6.6-7.0	-	-	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
DC2	LOAM	6.6-7.0	451+	376-500	1.1-2.0	FULL SUN	2.1-1.5	NO IRRIGATION
ID2	SANDY LOAM	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	1.6-2.0	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	-	-	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
KS1	SANDY CLAY LOAM	7.1-7.5	61-150	376-500	3.1-4.0	FULL SUN	3.1-3.5	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
MD1	SANDY LOAM	6.6-7.0	-	-	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
MO3	SILTY CLAY LOAM	7.1-7.5	0-60	151-240	3.1-4.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
NJ1	LOAM	6.1-6.5	61-150	151-240	6.1-7.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
NJ2	SANDY LOAM	6.1-6.5	151-270	151-240	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
NJ3	-	-	-	-	-	FULL SUN	2.1-2.5	-
NY1	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
NY2	SANDY LOAM	5.6-6.0	0-60	0-150	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
OH2	-	-	-	-	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
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	SILT LOAM AND SILT	5.6-6.0	-	-	4.1-5.0	FULL SUN	1.6-2.0	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
TX1	SILTY CLAY AND CLAY	7.6-8.5	451+	501+	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
TX2	SILTY CLAY AND CLAY	7.6-8.5	451+	501+	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	SILT LOAM AND SILT	6.1-6.5	151-270	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
UB2	SILT LOAM AND SILT	6.6-7.0	451+	151-240	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
VA1	-	-	-	-	-	FULL SUN	-	-
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	-	-	-	-	-	-	-	-
WA4	SILT LOAM AND SILT	6.6-7.0	61-150	241-375	0.0-1.0	DENSE SHADE	1.6-2.0	ONLY DURING SEVERE STRESS
WA5	LOAM	4.6-5.5	0-60	0-150	1.1-2.0	FULL SUN	2.1-2.5	NO IRRIGATION
WA6	SANDY LOAM	7.1-7.5	151-270	241-375	0.0-1.0	PART. SHADE	2.1-2.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 1988

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		
AZ1				X		X		X		X		
CA1								X		X	X	X
CA2	X	X	X		X	X	X		X	X		X
CA3	X	X	X		X	X	X		X	X		X
DC2					X	X					X	
ID2				X			X			X	X	
IL1						X	X	X		X		
IN1				X	X	X	X	X	X			
KS1				X	X	X	X	X	X	X	X	
KS2				X	X	X		X		X		
MD1								X				
MI1								X	X	X		
MO3			X	X	X	X	X	X	X	X		
NJ1				X	X	X	X	X	X	X	X	
NJ2				X	X	X	X	X	X	X	X	
NJ3				X	X	X	X	X	X	X		
NY1									X	X		
NY2									X	X		
OH2				X				X			X	
OK1				X	X	X	X	X	X	X	X	
OR1	X	X	X	X		X	X	X	X	X	X	X
OR2			X	X	X	X	X	X	X	X	X	X
RI1						X	X	X	X		X	
TX1				X								
TX2				X								
UB1						X	X	X	X	X	X	
UB2						X	X	X	X	X	X	
VA1				X	X	X	X	X	X	X	X	
VA2					X	X		X				
VA3				X	X	X	X	X	X	X	X	
WA4										X		
WA5												
WA6									X			

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1988

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
AR1	X				X					
AZ1			X	X	X	X		X	X	X
CA1							X			
CA2										
CA3										
DC2										
ID2	X			X			X			
IL1										
IN1										
KS1										
KS2	X			X						
MD1	X									
MI1			X						X	
MO3	X	X		X	X			X	X	X
NJ1	X									
NJ2	X									
NJ3	X		X							
NY1										
NY2										
OH2	X				X					
OK1	X						X	X	X	X
OR1										
OR2										
RI1										
TX1										
TX2										
UB1										
UB2										
VA1										
VA2								X		
VA3								X		
WA4	X			X			X			
WA5				X						
WA6								X		X

TABLE B. (continued)

LOCATIONS AND DATA COLLECTED IN 1988

LOCATION	DROUGHT TOLERANCE RECOVERY	FUSARIUM PATCH	LEAFSPOT	BROWN PATCH	PYTHIUM BLIGHT	CHINCH BUGS	FALL COLOR	VERTICAL GROWTH RATINGS
AR1								
AZ1								
CA1						X	X	
CA2								
CA3								
DC2								
ID2								
IL1								
IN1								
KS1								
KS2								
MD1								
MI1								
MO3								
NJ1				X				
NJ2								
NJ3			X		X			
NY1								
NY2								
OH2	X						X	
OK1								
OR1		X						
OR2								
RI1								
TX1								
TX2								
UB1								
UB2			X					
VA1				X				
VA2								
VA3				X				
WA4								X
WA5								
WA6								

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																
	AR1	AZ1	CA1	CA2	CA3	DC2	ID2	IL1	IN1	KS1	KS2	MD1	MI1	MO3	NJ1	NJ2	NJ3
HUBBARD 87	5.0	5.9	7.3	6.1	6.4	4.7	5.9	7.5	7.3	7.5	8.1	5.3	6.9	6.3	6.4	6.9	5.5
PE-7E	5.0	6.3	7.0	6.2	6.4	4.1	6.4	7.5	7.0	7.5	8.0	5.3	.	5.7	5.9	6.7	5.6
PST-5MW	4.1	6.8	7.0	5.8	6.0	4.4	4.9	7.0	6.0	7.5	7.8	5.0	6.4	6.0	6.3	6.9	6.2
NORMARC 25	4.5	6.5	6.8	6.1	6.3	5.7	6.0	7.8	7.2	7.0	7.9	4.7	.	5.8	5.8	5.7	4.9
PE-7	5.2	6.1	6.9	5.9	6.4	3.9	5.8	7.3	6.9	7.4	7.9	5.3	5.7	6.4	5.8	7.0	5.9
* PST-5HF (AMIGO)	4.9	6.3	6.9	6.0	6.4	4.1	6.0	7.5	6.4	7.2	7.7	5.0	6.9	5.5	5.5	6.6	5.7
* AZTEC	5.0	5.8	7.1	6.2	6.1	3.4	5.5	7.3	5.2	7.5	7.8	5.7	6.1	6.0	6.0	7.2	6.2
PICK DM	4.7	6.4	7.1	6.4	6.3	4.0	6.1	7.1	5.7	7.8	7.7	5.0	6.8	6.2	6.1	6.7	5.7
* MONARCH	5.2	5.6	6.8	6.0	6.1	3.9	5.9	7.3	6.7	7.2	7.8	5.0	6.7	5.4	6.3	6.7	5.5
* BONANZA	5.0	5.6	7.0	5.8	6.5	5.6	5.9	7.8	6.9	6.9	7.7	5.3	6.4	5.6	5.5	6.4	5.1
PICK TF9	5.7	5.4	7.0	6.2	6.1	4.4	5.6	7.2	6.4	7.5	8.0	5.7	6.2	5.8	6.1	6.7	5.5
PICK 127	4.9	6.3	6.5	5.9	6.0	5.0	5.4	7.4	6.6	7.7	7.8	4.3	6.6	6.1	6.2	6.5	5.8
PICK 845PN	5.0	6.6	7.3	5.7	6.0	3.1	5.6	7.3	6.5	7.4	7.7	5.0	5.9	5.6	5.8	7.0	5.6
* OLYMPIC	5.5	6.4	6.4	5.8	6.4	5.2	5.4	7.6	7.1	6.9	7.5	4.3	6.0	5.6	4.9	5.4	4.7
NORMARC 77	4.7	6.3	6.9	5.7	6.2	5.3	5.4	7.7	7.2	7.0	7.7	5.7	5.9	6.0	5.4	5.9	4.9
KWS-BG-6	5.1	6.7	6.6	5.6	6.1	3.2	6.0	6.3	6.5	8.5	7.7	5.0	.	5.6	5.3	7.1	5.7
* CHIEFTAIN	4.6	6.3	6.4	6.0	6.2	4.0	5.8	7.1	6.8	7.1	7.4	5.7	6.1	5.5	5.0	5.9	5.8
* THOROUGHbred	4.8	6.6	6.4	5.7	6.4	6.1	5.9	7.1	7.2	6.8	7.5	4.7	6.3	5.1	4.9	6.0	5.3
PST-5AP	4.9	6.2	6.3	5.9	6.2	4.2	5.5	7.1	6.2	7.0	7.5	5.0	6.2	5.4	5.1	5.9	5.4
PST-5OL	5.3	6.3	6.8	5.9	6.4	4.1	4.6	7.1	6.6	7.0	7.8	4.7	6.3	5.2	5.2	5.7	5.1
* REBEL II	5.3	5.7	6.4	5.9	6.4	5.9	5.6	7.2	6.8	6.8	7.1	5.7	6.6	5.7	5.2	5.3	5.1
* TRIBUTE	4.9	6.5	6.5	6.0	6.5	4.4	5.9	6.9	5.9	6.9	7.9	5.0	6.7	5.8	5.5	5.5	5.0
* TRAILBLAZER	4.1	5.3	6.8	5.9	6.4	4.2	5.3	7.2	6.4	7.4	7.4	4.0	6.3	5.8	5.7	6.4	5.8
PICK GH6	5.2	5.5	6.8	6.1	6.1	4.0	5.1	7.2	6.3	7.5	7.8	4.3	6.4	5.5	5.8	6.5	5.4
* MESA	5.1	6.5	6.6	6.0	6.2	5.9	5.4	7.4	6.3	6.8	7.1	6.0	6.3	5.2	5.0	5.4	4.6
NORMARC 99	4.8	5.4	6.6	5.9	6.1	4.0	4.9	7.1	5.5	7.5	7.8	5.0	6.0	5.8	6.5	6.9	5.4
* CIMMARON	4.9	5.9	6.7	5.7	6.6	4.3	5.9	7.3	6.5	6.9	7.5	5.3	6.2	5.4	4.4	6.0	5.0
PST-5EN	5.0	6.3	.	5.7	6.4	4.9	5.7	7.3	6.3	7.0	7.6	6.0	5.8	5.6	5.0	5.3	5.0
PST-5AG	4.5	5.8	6.9	6.4	6.3	4.3	5.3	7.3	6.4	6.9	7.6	5.0	6.4	5.7	4.6	5.4	5.3
* WRANGLER	4.8	5.8	6.7	5.6	6.2	5.4	5.8	7.2	6.7	6.9	7.6	5.7	6.2	5.0	5.0	5.4	5.2
PICK DDF	4.6	5.8	7.0	6.4	6.0	3.2	5.4	6.9	6.1	7.5	7.8	5.3	6.3	5.3	5.5	6.6	5.7
* PST-5D1 (ELDORADO)	4.5	5.9	6.6	5.9	6.3	5.3	5.7	7.1	5.9	7.4	7.7	4.7	6.3	5.3	5.9	6.5	5.4
* PST-5F2 (WINCHESTER)	4.4	6.3	6.3	5.5	6.2	4.4	5.8	6.9	6.4	7.0	7.5	5.0	5.9	6.0	5.3	5.5	4.9
* TITAN	4.5	6.1	5.9	5.7	6.5	5.4	6.0	7.4	6.8	6.5	7.5	5.7	6.0	6.0	4.4	5.1	4.8
* APACHE	5.1	5.8	6.3	5.6	6.4	4.2	5.7	7.7	6.7	7.2	7.6	4.7	6.7	5.3	4.8	5.3	5.2
* FINELAWN 5GL	4.7	5.0	6.4	5.8	6.5	6.0	5.8	7.0	6.8	6.5	7.5	4.7	5.8	5.5	4.3	5.0	4.7
PST-5DM	4.5	4.9	7.0	6.0	6.1	3.2	5.6	7.2	5.8	7.1	7.7	5.3	5.7	5.2	5.8	6.2	5.3
* JAGUAR II	4.6	5.9	6.5	5.7	6.7	4.2	6.2	7.3	6.3	6.7	7.6	5.3	7.4	5.1	4.3	5.5	4.6
PST-DBC	4.5	5.7	6.2	5.7	6.5	4.4	6.0	7.2	6.6	6.7	7.4	5.3	6.2	5.1	4.7	5.8	5.0
JB-2	4.7	5.4	6.5	5.6	6.4	5.0	6.2	6.6	6.3	6.9	7.1	5.0	6.1	5.0	4.6	5.1	4.6

* COMMERCIALY AVAILABLE VARIETY

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																
	AR1	AZ1	CA1	CA2	CA3	DC2	ID2	IL1	IN1	KS1	KS2	MD1	MI1	MO3	NJ1	NJ2	NJ3
* TAURUS	4.8	6.0	6.5	5.9	6.3	3.8	5.5	7.3	6.0	6.9	7.2	5.7	6.2	5.2	5.0	5.0	5.3
* BAR FA 7851 (BARNONE)	4.6	5.2	6.5	5.7	6.3	5.7	5.5	7.0	6.6	7.0	7.3	4.7	.	5.9	4.7	5.8	5.1
KWS-DUR	4.4	5.7	6.8	5.8	6.2	3.6	6.4	7.4	6.1	7.2	7.3	4.3	6.0	5.6	5.7	6.5	5.7
* SUNDANCE	4.8	5.9	6.1	6.0	6.3	4.4	5.3	7.3	6.0	7.1	7.5	4.7	6.2	5.5	5.3	5.4	5.3
BEL 86-2	4.5	5.7	6.9	5.8	6.0	3.1	5.6	6.6	6.4	6.9	7.6	5.3	5.7	5.3	5.3	5.5	5.1
* ARID	5.6	5.4	6.1	5.9	6.3	4.8	6.0	6.7	6.6	6.6	7.3	4.7	6.1	5.4	4.5	4.7	4.8
* CAREFREE	4.1	6.5	6.4	5.7	6.6	4.8	6.0	6.8	6.4	7.1	7.7	4.3	6.1	5.5	4.3	4.8	4.5
* ADVENTURE	4.3	6.0	6.2	5.6	6.6	5.3	5.7	7.3	6.8	6.8	7.2	4.7	6.1	5.4	4.0	4.8	4.8
* JAGUAR	4.5	5.4	6.3	5.9	6.3	4.8	5.5	7.7	6.9	6.8	7.1	5.0	5.7	5.2	4.2	5.0	4.3
BEL 86-1	4.4	6.0	6.5	5.7	6.1	4.7	5.6	7.3	6.1	6.9	7.6	5.0	5.7	5.2	5.1	5.9	5.4
* PST-5BL (SILVERADO)	4.7	5.1	6.7	5.8	6.1	3.7	5.6	6.6	5.4	7.3	7.1	4.3	6.1	5.5	6.0	6.8	4.7
* LEGEND	5.2	5.2	6.3	5.7	5.9	3.9	5.6	6.8	6.7	7.0	7.5	5.0	6.2	5.0	4.8	5.7	4.5
* TRIDENT	4.4	6.0	6.4	5.5	6.4	4.9	5.4	7.2	6.5	6.8	7.2	5.0	6.1	5.3	4.6	5.7	3.6
* REBEL	5.2	5.6	6.4	5.8	6.5	5.9	5.6	6.9	6.3	6.6	6.9	5.0	6.3	5.2	4.3	4.4	3.9
* PST-5D7 (MURIETTA)	3.8	5.1	7.1	6.3	6.1	4.1	5.2	6.8	6.2	7.1	7.5	5.0	5.6	5.2	4.9	6.0	5.0
* FALCON	4.6	5.4	5.8	5.4	6.2	4.3	4.8	6.9	5.9	6.4	7.1	5.0	6.6	5.3	3.8	4.4	4.1
* PACER	4.9	5.2	5.6	5.3	6.0	5.2	5.8	6.7	5.9	6.7	7.1	5.0	5.9	5.6	4.0	3.9	4.1
* FINELAWN I	4.9	5.4	6.4	5.2	6.1	5.7	5.8	6.9	6.6	6.2	7.0	5.3	5.9	4.8	3.5	4.5	3.8
* PICK SLD (EMPEROR)	4.3	5.4	6.8	6.2	6.1	2.6	4.4	6.5	5.8	7.1	7.7	5.0	6.0	5.2	5.3	6.0	4.6
* WILLAMETTE	5.0	5.8	5.5	5.4	6.1	4.8	5.7	6.5	6.7	6.2	7.5	5.0	5.7	5.0	3.5	4.2	3.3
* RICHMOND	4.3	5.5	6.1	5.6	6.2	4.4	5.6	6.9	6.2	6.3	7.0	4.7	6.1	5.2	4.0	4.0	4.3
* TIP	4.6	5.7	5.5	5.5	6.1	4.3	5.5	6.4	5.7	6.3	6.6	4.7	5.9	5.2	3.3	3.5	4.0
SYN GA	4.5	5.8	5.3	5.6	5.9	4.7	5.4	6.1	6.1	6.1	7.1	4.0	5.4	5.0	3.4	3.7	3.9
FATIMA	4.6	5.4	5.4	5.2	5.7	4.9	5.7	7.0	5.4	6.1	6.7	5.0	5.4	4.8	3.3	3.9	3.9
* KY-31	5.0	4.7	4.8	4.7	5.9	6.0	5.1	6.2	6.0	5.2	6.5	5.0	5.0	4.8	2.6	3.0	3.6
LSD VALUE	0.7	1.0	0.5	0.5	0.4	1.7	0.9	0.7	0.7	0.4	0.4	1.4	0.8	0.5	0.7	0.8	0.8

* COMMERCIALY AVAILABLE VARIETY

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 TALL FESCUE CULTIVARS
AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/															MEAN	
	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	WA4		WA6
HUBBARD 87	6.5	6.3	6.3	6.0	7.0	6.2	6.9	6.0	6.3	7.2	7.1	6.5	6.0	5.7	7.0	3.7	6.4
PE-7E	5.3	5.7	6.9	6.5	6.8	6.0	6.3	5.3	5.7	7.1	7.2	6.5	5.6	4.9	6.7	4.7	6.2
PST-5MW	5.8	5.7	6.6	5.9	6.9	5.9	6.5	5.0	6.3	6.9	7.0	5.8	5.6	5.2	7.7	6.7	6.2
NORMARC 25	6.0	5.7	6.6	6.0	6.3	5.9	6.8	5.0	5.3	6.9	6.9	6.2	5.4	5.5	.	5.3	6.1
PE-7	5.7	5.5	6.2	6.1	6.3	5.8	6.5	5.3	5.7	7.3	7.2	6.3	5.6	5.4	6.7	3.3	6.1
PST-5HF (AMIGO)	5.8	5.8	6.1	5.5	7.2	5.6	6.5	6.0	5.3	6.9	6.9	5.9	5.4	5.0	6.7	5.3	6.1
AZTEC	5.0	5.5	5.7	6.0	7.2	5.3	6.1	6.3	5.7	7.0	7.1	6.0	5.4	5.0	6.0	7.3	6.1
PICK DM	4.7	5.8	6.7	5.8	6.8	5.4	6.2	5.7	6.0	6.7	7.3	5.8	5.3	5.1	6.7	5.0	6.1
MONARCH	4.8	5.3	5.7	5.6	6.7	5.6	6.9	5.0	6.0	6.6	7.0	6.2	5.1	5.1	5.3	7.7	6.0
BONANZA	5.0	5.7	7.2	5.9	6.6	5.5	6.6	6.3	5.3	6.6	7.1	6.2	5.0	5.3	5.7	4.0	6.0
PICK TF9	5.7	6.3	5.7	6.3	6.4	5.5	6.5	4.3	6.3	6.6	7.0	5.8	5.7	4.8	6.0	3.7	6.0
PICK 127	6.2	5.7	5.4	5.5	7.1	5.7	6.5	4.7	4.7	6.7	7.0	6.4	5.4	5.3	5.0	5.7	6.0
PICK 845PN	5.3	5.3	6.0	5.9	7.0	5.9	5.9	4.7	5.7	6.9	7.1	6.4	5.3	5.4	6.7	4.7	6.0
OLYMPIC	5.8	5.8	6.8	6.0	5.8	6.1	6.6	5.0	5.7	6.6	6.4	5.9	5.4	5.7	6.0	5.0	5.9
NORMARC 77	5.2	5.5	6.2	6.2	6.4	6.0	6.5	4.7	6.0	6.5	6.9	5.9	5.8	5.2	6.3	2.3	5.9
KWS-BG-6	4.7	5.0	6.1	4.7	6.3	5.2	5.5	6.7	7.3	6.6	6.9	5.4	4.9	4.4	7.7	5.3	5.9
CHIEFTAIN	5.3	5.7	6.9	6.1	6.3	5.8	6.8	5.7	5.7	6.6	6.7	6.0	5.7	5.2	6.0	3.3	5.9
THOROUGHbred	4.7	4.5	6.8	6.0	5.5	6.0	6.9	3.3	6.3	6.6	6.6	6.1	5.4	5.0	6.7	5.7	5.9
PST-5AP	5.2	5.3	6.1	6.5	5.9	5.6	6.3	5.0	5.7	6.7	7.1	5.9	5.6	5.6	7.0	5.3	5.9
PST-5OL	5.7	5.8	6.4	6.1	6.2	5.4	6.3	5.3	6.0	6.6	6.6	5.8	5.7	5.1	6.3	5.3	5.9
REBEL II	5.0	4.8	7.0	6.0	6.3	5.6	7.0	4.0	5.7	6.7	6.6	6.2	5.7	5.2	6.0	4.3	5.9
TRIBUTE	4.5	4.8	6.4	5.8	6.5	5.6	6.7	5.3	5.7	6.7	6.9	6.2	5.6	5.4	6.3	3.7	5.9
TRAILBLAZER	5.8	6.2	6.4	5.9	6.2	6.3	5.7	6.7	5.3	6.6	6.9	5.5	4.7	4.6	6.7	4.3	5.9
PICK GH6	5.5	5.7	5.7	6.1	6.5	5.3	6.2	6.0	5.0	6.6	7.3	5.8	5.3	5.3	6.0	4.0	5.9
MESA	4.5	4.3	6.7	6.0	6.3	5.7	6.6	5.3	5.0	6.7	6.8	6.1	5.2	5.5	5.7	5.7	5.9
NORMARC 99	5.3	4.8	5.3	5.3	6.8	5.5	6.1	5.7	6.7	6.9	7.5	5.5	5.4	5.1	6.0	4.3	5.9
CIMMARON	5.5	5.3	7.0	5.5	5.4	5.2	6.5	5.7	6.3	6.6	6.6	6.0	5.2	5.1	5.7	5.3	5.9
PST-5EN	5.0	5.8	6.3	5.5	6.4	5.9	6.5	5.7	6.0	6.6	6.8	5.9	5.6	5.4	5.0	4.0	5.8
PST-5AG	4.3	4.5	6.0	6.0	7.0	6.0	6.9	5.0	6.0	6.2	6.8	6.5	5.4	4.9	5.7	5.3	5.8
WRANGLER	5.2	5.2	6.3	6.1	5.9	6.0	6.1	5.3	5.7	6.8	6.6	6.3	5.4	5.2	4.3	4.7	5.8
PICK DDF	4.8	4.3	5.4	4.9	6.8	5.2	5.5	4.7	6.0	6.9	7.4	6.2	5.4	5.1	5.7	6.3	5.8
PST-5D1 (ELDORADO)	4.3	4.5	5.7	5.5	6.7	5.6	5.8	4.7	6.7	6.5	7.1	5.7	6.0	5.3	5.0	4.3	5.8
PST-5F2 (WINCHESTER)	4.3	5.0	5.9	5.7	5.8	5.5	6.7	5.7	5.0	6.4	6.8	5.8	5.7	5.9	5.3	6.7	5.8
TITAN	4.2	4.2	7.0	6.6	5.8	5.4	6.5	5.7	5.3	6.4	6.4	6.0	5.8	5.3	5.7	4.3	5.8
APACHE	5.0	5.2	6.7	5.9	6.1	6.0	6.3	5.7	4.7	6.4	7.0	6.0	5.6	5.2	7.0	2.0	5.8
FINELAWN 5GL	4.2	5.0	7.1	6.0	5.9	5.8	6.0	6.3	5.0	6.4	6.4	6.0	5.8	5.7	6.0	5.0	5.8
PST-5DM	5.3	5.2	6.1	5.7	6.3	5.7	6.7	5.7	5.3	6.4	6.3	5.9	5.0	5.6	4.7	5.7	5.8
JAGUAR II	5.3	5.3	5.8	6.0	6.6	5.8	6.6	3.3	5.3	6.5	6.7	6.2	5.1	5.3	5.3	5.0	5.8
PST-DBC	5.2	5.2	6.7	6.4	5.7	5.5	5.9	5.3	4.3	6.8	6.5	6.0	5.6	5.2	5.3	5.7	5.8
JB-2	5.5	5.3	6.9	5.7	5.7	6.0	6.8	6.0	6.0	6.3	6.1	5.9	5.2	5.3	4.3	5.7	5.8

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																
	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	WA4	WA6	MEAN
TAURUS	5.3	4.8	6.7	5.4	5.8	5.4	5.8	5.3	6.3	6.6	6.1	5.8	5.6	4.7	6.7	4.7	5.7
BAR FA 7851 (BARNONE)	4.7	5.3	6.3	5.3	6.4	5.4	5.9	6.3	5.7	6.6	6.8	6.0	5.4	4.7	5.3	3.7	5.7
KWS-DUR	4.5	4.7	5.9	5.4	6.5	5.8	6.3	5.0	4.7	6.5	6.6	6.0	5.3	5.3	7.0	2.7	5.7
SUNDANCE	4.0	4.2	6.7	5.8	5.8	5.7	6.5	4.7	5.0	6.6	6.7	5.9	5.3	5.7	5.3	5.7	5.7
BEL 86-2	5.5	5.7	6.6	5.5	6.2	5.9	6.1	4.7	5.0	6.4	6.7	6.2	5.3	5.3	6.3	3.7	5.7
ARID	5.0	5.3	6.2	5.9	5.5	5.6	6.5	5.7	5.3	6.4	6.4	5.7	5.6	5.7	5.0	5.0	5.7
CAREFREE	5.0	5.5	6.0	5.5	5.6	5.6	5.8	4.3	6.3	6.4	6.5	5.9	5.0	5.2	6.0	5.7	5.7
ADVENTURE	4.8	5.5	6.9	5.5	6.1	5.7	6.5	6.3	5.0	6.4	6.0	5.6	5.3	4.8	5.7	3.7	5.7
JAGUAR	4.5	4.7	7.1	6.4	5.8	5.9	6.8	5.0	5.3	6.4	6.3	5.9	5.3	5.1	5.3	4.7	5.7
BEL 86-1	4.3	4.3	6.7	6.0	5.5	5.5	6.0	5.3	5.0	6.5	6.7	5.9	5.3	5.1	5.0	4.3	5.7
PST-5BL (SILVERADO)	4.5	4.8	5.6	5.5	6.9	5.4	6.2	5.3	5.3	6.8	6.7	6.0	5.1	4.5	5.7	4.7	5.7
LEGEND	4.2	4.3	5.9	5.7	6.0	5.8	5.6	5.7	5.7	6.8	6.8	5.5	5.3	5.5	5.0	4.3	5.6
TRIDENT	4.8	4.7	6.6	5.4	5.8	5.4	5.7	5.3	6.3	6.7	6.6	5.4	5.2	4.1	5.7	4.3	5.6
REBEL	4.3	4.8	6.3	5.6	5.4	5.9	6.6	5.0	5.3	6.2	6.3	5.8	5.1	5.0	5.0	5.3	5.6
PST-5D7 (MURIETTA)	4.7	5.2	5.7	5.3	5.8	5.7	5.9	5.7	5.0	6.3	6.7	5.5	4.6	4.0	6.3	4.3	5.6
FALCON	4.3	4.7	6.8	5.8	5.4	5.8	6.4	6.0	5.7	6.3	6.1	5.8	5.3	5.6	4.7	6.3	5.5
PACER	4.7	4.5	6.0	5.8	4.9	5.5	5.9	5.7	5.7	6.3	6.1	5.3	5.3	5.1	6.0	5.3	5.5
FINELAWN I	4.2	4.7	6.8	5.9	5.1	5.9	6.5	5.0	5.0	6.3	5.9	5.6	5.3	5.1	4.3	3.7	5.4
PICK SLD (EMPEROR)	4.2	4.0	5.0	5.0	6.4	5.0	5.8	5.0	5.7	6.5	7.0	5.3	4.7	5.1	5.0	5.0	5.4
WILLAMETTE	4.5	5.0	7.0	5.2	4.7	5.7	5.3	5.7	5.3	6.0	6.0	5.5	4.9	5.3	6.0	3.0	5.4
RICHMOND	4.8	4.8	5.7	5.3	5.0	5.5	5.8	4.3	6.0	6.2	6.0	5.3	4.9	5.1	5.0	3.3	5.3
TIP	3.7	4.2	6.2	6.2	4.3	5.6	5.7	5.3	6.0	6.2	5.8	5.4	5.2	5.1	5.0	5.0	5.3
SYN GA	3.8	4.0	6.8	5.3	4.7	5.6	4.8	4.7	5.7	5.8	5.9	5.1	5.2	5.2	5.7	5.0	5.2
FATIMA	4.2	4.2	6.3	5.5	4.8	5.6	6.0	5.7	4.7	5.9	5.6	5.4	5.3	4.9	5.3	1.7	5.1
KY-31	3.3	3.8	6.6	6.0	3.7	5.3	5.5	5.3	5.7	5.1	4.9	5.3	5.3	4.3	3.0	3.7	4.9
LSD VALUE	1.3	1.2	1.0	0.8	0.6	0.5	0.9	1.8	1.9	0.5	0.6	0.5	0.7	0.8	1.8	2.9	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 2.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR
EACH MONTH GROWN AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
HUBBARD 87	5.8	5.9	5.9	6.3	6.3	6.6	6.4	6.5	6.6	6.7	6.5	6.5	6.3
PE-7E	5.6	6.0	5.7	6.2	6.6	6.5	6.4	6.2	6.2	6.6	6.3	5.9	6.2
PST-5MW	5.3	5.4	5.6	6.1	6.0	6.3	6.1	6.2	6.4	6.3	6.4	5.9	6.1
NORMARC 25	5.4	5.6	5.9	6.0	6.2	6.5	6.1	6.1	6.2	6.3	6.3	6.2	6.1
PST-5HF (AMIGO)	5.6	6.4	5.7	5.9	6.0	6.1	6.2	6.1	6.2	6.4	6.3	6.0	6.1
PE-7	5.4	5.2	5.9	6.1	6.4	6.5	6.4	6.1	6.3	6.5	6.2	6.0	6.1
PICK DM	5.2	5.4	5.8	5.8	6.0	6.2	6.3	6.1	6.3	6.5	6.3	6.1	6.1
AZTEC	5.0	5.6	5.3	5.7	6.1	6.3	6.2	6.0	6.4	6.5	6.4	6.3	6.1
MONARCH	5.6	5.6	5.6	5.9	6.0	6.2	6.2	6.0	6.3	6.4	6.2	5.9	6.0
BONANZA	5.6	5.9	5.7	6.2	6.2	6.2	6.1	6.0	6.1	6.1	6.3	5.9	6.0
PICK TF9	5.0	5.3	5.5	6.0	6.1	6.2	6.2	6.1	6.3	6.4	6.2	6.1	6.0
PICK 127	5.7	5.8	5.5	6.1	6.3	6.4	6.2	6.1	6.2	6.3	6.1	6.1	6.0
PICK 845PN	5.4	5.4	5.5	6.1	6.2	6.3	6.0	6.1	6.1	6.4	6.3	6.3	6.0
KWS-BG-6	4.7	4.7	4.9	6.0	6.1	6.3	6.1	5.6	5.9	6.1	5.8	5.9	5.9
OLYMPIC	5.6	5.9	5.6	5.8	6.0	6.2	5.9	6.0	6.1	6.0	6.1	6.2	5.9
CHIEFTAIN	5.2	5.6	5.5	6.1	5.9	6.0	5.9	6.1	6.1	6.2	6.1	5.9	5.9
NORMARC 77	5.0	5.6	5.9	5.9	6.1	6.3	6.1	6.1	5.8	6.2	6.1	6.2	5.9
THOROUGHbred	5.7	5.6	5.9	5.9	6.1	6.1	6.0	5.9	5.9	6.0	6.2	5.7	5.9
PST-5AP	5.4	5.7	5.4	5.8	5.9	5.9	6.0	6.0	6.1	6.2	6.1	6.1	5.9
REBEL II	5.7	5.8	5.8	5.6	6.0	5.9	5.9	6.1	6.1	6.2	6.2	5.8	5.9
TRIBUTE	5.9	6.6	5.7	5.7	6.0	6.1	6.0	6.2	5.9	6.1	6.0	5.8	5.9
PST-5OL	5.4	5.4	5.5	5.7	5.7	6.0	5.9	6.0	6.0	6.1	6.2	6.1	5.9
CIMMARON	5.3	5.4	5.7	5.8	5.9	5.8	5.9	5.8	5.9	6.0	5.8	5.9	5.9
TRAILBLAZER	5.4	5.4	5.4	5.9	6.1	6.1	6.1	5.7	6.0	6.2	6.2	5.8	5.9
MESA	5.4	5.6	5.9	5.6	5.8	6.1	5.9	6.1	6.1	5.9	5.9	5.9	5.9
PICK GH6	5.2	5.4	5.7	5.9	6.1	6.0	6.0	6.1	6.2	6.1	6.0	5.9	5.9
PST-5EN	5.9	5.7	5.7	5.7	5.9	6.1	5.9	5.9	5.8	6.0	6.2	5.9	5.8
NORMARC 99	5.8	5.4	5.6	5.6	6.0	6.0	6.2	6.0	6.0	6.2	6.1	6.0	5.8
WRANGLER	4.8	5.2	5.5	5.8	6.1	6.1	5.8	5.7	5.9	6.1	6.1	5.9	5.8
PST-5AG	5.8	6.2	5.9	5.9	6.0	6.1	5.9	5.8	6.0	6.0	6.1	6.1	5.8
PICK DDF	5.6	5.6	5.0	5.6	6.0	6.2	6.1	5.8	6.1	6.1	5.9	5.9	5.8
PST-5D1 (ELDORADO)	5.8	5.9	5.3	5.9	6.2	6.2	6.1	5.8	5.8	6.0	6.1	6.1	5.8
PST-5F2 (WINCHESTER)	5.2	5.6	5.3	5.5	5.8	6.0	6.0	6.0	5.8	6.1	5.9	5.7	5.8
TITAN	5.3	5.7	5.8	5.9	5.9	6.1	5.9	6.0	5.7	5.7	5.8	5.5	5.8
APACHE	5.2	5.9	5.5	5.9	6.0	5.9	6.2	5.9	5.7	6.1	5.8	6.1	5.8
JAGUAR II	5.8	6.3	5.5	5.5	5.7	5.9	5.8	5.9	6.0	6.1	6.2	6.1	5.8
FINELAWN 5GL	5.9	6.2	5.7	5.8	6.2	6.1	5.8	5.6	5.5	5.7	5.8	6.1	5.8
PST-DBC	5.2	5.7	5.2	5.6	5.7	5.8	5.9	5.9	6.0	5.9	6.1	5.8	5.8
JB-2	5.2	5.3	5.5	5.7	5.9	5.9	5.6	5.6	5.7	5.8	6.1	6.3	5.8
PST-5DM	5.7	5.7	5.5	5.8	6.1	6.0	5.9	5.7	6.0	6.0	5.8	6.0	5.8

TABLE 2.
(continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR
EACH MONTH GROWN AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
KWS-DUR	5.4	5.2	5.7	6.0	6.1	6.1	6.1	5.7	5.8	6.1	6.0	6.2	5.7
TAURUS	5.1	5.7	5.1	5.7	5.8	5.8	5.6	5.8	5.7	5.9	5.7	6.2	5.7
BAR FA 7851 (BARNONE)	5.4	5.7	5.7	5.8	6.0	6.0	5.7	5.6	5.7	5.9	5.9	6.3	5.7
ARID	5.3	5.1	5.4	5.3	5.5	5.8	5.9	6.0	6.1	5.9	5.8	5.7	5.7
BEL 86-2	4.7	4.7	5.1	5.7	5.9	6.0	5.8	5.9	5.9	6.1	5.8	6.2	5.7
SUNDANCE	5.6	5.8	5.7	5.7	5.9	6.0	5.8	5.9	5.8	5.8	6.0	5.9	5.7
CAREFREE	5.3	5.7	5.6	5.7	5.8	6.0	5.6	5.5	5.6	5.9	5.8	5.9	5.7
ADVENTURE	5.7	5.7	5.6	5.5	5.7	5.9	5.5	5.7	5.7	5.8	5.8	6.3	5.7
JAGUAR	5.4	5.2	5.3	5.5	5.8	6.0	5.8	5.7	5.6	5.8	5.9	6.1	5.7
BEL 86-1	4.6	4.9	5.5	5.7	6.0	6.1	5.9	5.9	5.6	5.8	5.6	5.9	5.7
PST-5BL (SILVERADO)	5.4	5.6	5.2	5.6	5.9	5.9	6.0	5.7	5.9	6.1	5.9	5.9	5.7
LEGEND	4.8	5.0	5.1	5.8	5.6	5.9	5.7	5.7	5.8	5.9	6.0	6.1	5.6
REBEL	5.3	5.7	5.2	5.1	5.4	5.8	5.6	5.7	5.8	5.7	6.0	6.1	5.6
TRIDENT	5.7	4.9	4.9	5.5	5.5	5.8	5.6	5.7	5.5	5.7	5.8	6.1	5.6
PST-5D7 (MURIETTA)	4.9	5.0	4.9	5.5	5.9	6.0	5.8	5.5	5.5	5.8	5.6	5.8	5.6
FALCON	5.3	5.3	5.3	5.4	5.5	5.8	5.5	5.6	5.6	5.4	5.5	5.7	5.5
PACER	4.6	4.6	4.8	5.2	5.4	5.6	5.6	5.6	5.4	5.5	5.4	5.9	5.5
FINELAWN I	4.9	5.6	5.3	5.5	5.5	5.8	5.5	5.5	5.2	5.4	5.5	5.6	5.4
PICK SLD (EMPEROR)	5.0	5.3	4.9	5.5	5.5	5.8	5.7	5.5	5.6	5.8	5.6	6.2	5.4
WILLAMETTE	4.7	4.9	4.6	5.5	5.6	5.5	5.3	5.4	5.2	5.4	5.3	5.7	5.4
RICHMOND	5.3	5.6	5.1	5.0	5.3	5.5	5.4	5.4	5.2	5.6	5.2	5.7	5.3
TIP	4.4	5.2	4.9	5.1	5.3	5.4	5.3	5.2	5.2	5.3	5.3	5.7	5.3
SYN GA	4.4	5.0	5.0	5.0	5.2	5.4	5.1	5.2	5.1	5.3	5.1	5.7	5.2
FATIMA	4.8	4.7	5.0	4.9	5.2	5.4	5.4	5.3	5.0	5.3	5.1	5.3	5.2
KY-31	3.9	4.4	5.0	5.0	5.1	5.2	4.9	5.0	4.6	4.6	4.6	4.8	4.9
LSD VALUE	1.1	0.8	0.8	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.8	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-THREE LOCATIONS IN THE UNITED STATES 1/
1988 DATA

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

NAME	AR1	AZ1	CA1	CA2	CA3	DC2	ID2	IL1	IN1	KS1	KS2	MD1	MI1	MO3	NJ1	NJ2	NJ3
HUBBARD 87	16.5	27.0	1.5	9.5	19.5	28.0	13.0	8.0	1.0	5.5	1.0	16.0	2.5	2.0	2.0	5.0	16.0
PE-7E	19.5	12.0	8.5	7.0	12.0	45.5	2.0	8.0	6.0	5.5	2.5	16.0	.	18.0	10.0	11.5	12.5
PST-5MW	62.5	1.0	8.5	36.5	61.0	33.0	62.0	42.5	51.5	9.0	10.5	33.5	13.0	5.5	4.0	6.5	2.0
NORMARC 25	46.0	6.0	22.0	9.5	25.5	8.0	7.5	1.0	4.0	28.0	4.5	51.5	.	11.5	14.5	32.5	39.5
PE-7	9.0	21.0	14.0	20.0	22.5	53.0	24.5	16.0	7.0	14.0	4.5	16.0	54.5	1.0	12.5	3.0	3.0
PST-5HF (AMIGO)	25.5	16.0	14.0	16.5	15.5	47.5	6.0	8.0	35.0	18.0	15.5	33.5	2.5	28.5	20.0	13.5	7.0
AZTEC	16.5	36.0	4.0	7.0	53.0	59.0	45.0	16.0	65.0	5.5	10.5	6.5	35.0	8.0	9.0	1.0	1.0
PICK DM	37.5	10.0	4.0	1.5	31.0	51.0	5.0	37.0	60.5	2.0	20.5	33.5	4.0	3.0	6.5	11.5	9.5
MONARCH	7.0	44.5	18.5	12.0	53.0	54.5	15.5	16.0	16.0	20.0	10.5	33.5	6.0	36.5	3.0	9.5	14.0
BONANZA	19.5	43.0	8.5	30.5	9.0	10.0	18.0	2.0	8.5	42.5	20.5	16.0	11.0	19.0	22.0	19.5	31.5
PICK TF9	1.0	56.0	8.5	5.0	45.0	33.0	39.5	29.5	31.5	11.0	2.5	6.5	28.0	11.5	6.5	9.5	15.0
PICK 127	28.0	16.0	34.0	22.5	58.0	18.5	51.5	11.5	22.0	3.0	10.5	60.5	9.0	4.0	5.0	16.5	4.5
PICK 845PN	14.5	3.0	1.5	40.0	58.0	64.0	39.5	22.0	27.5	14.0	20.5	33.5	46.0	22.5	14.5	4.0	12.5
OLYMPIC	3.0	9.0	42.0	33.5	15.5	16.5	48.0	6.0	5.0	42.5	34.5	60.5	41.0	22.5	38.0	43.5	46.0
NORMARC 77	35.0	16.0	14.0	48.5	40.5	14.0	49.0	4.0	2.5	32.0	20.5	6.5	49.0	5.5	23.0	26.0	39.5
KWS-BG-6	13.0	2.0	28.5	51.0	45.0	61.5	12.0	63.0	27.5	1.0	20.5	33.5	.	22.5	24.0	2.0	9.5
CHIEFTAIN	43.5	12.0	42.0	14.0	34.0	49.0	20.0	37.0	11.0	22.5	43.5	6.5	30.5	31.5	34.5	28.0	6.0
THOROUGHbred	30.5	4.0	42.0	45.0	15.5	1.0	17.0	37.0	2.5	47.5	34.5	51.5	18.0	55.0	39.5	22.5	24.5
PST-5AP	22.5	19.0	49.0	20.0	38.5	42.5	42.0	37.0	44.5	28.0	34.5	33.5	24.0	34.0	31.5	28.0	20.0
PST-5OL	4.0	12.0	18.5	24.5	19.5	45.5	64.0	37.0	25.0	32.0	10.5	51.5	18.0	51.5	29.5	34.5	31.5
REBEL II	5.0	38.5	42.0	24.5	15.5	5.5	34.0	29.5	14.0	45.5	54.5	6.5	9.0	16.5	29.5	46.5	29.0
TRIBUTE	25.5	8.0	34.0	16.5	5.5	33.0	14.0	48.0	54.5	37.5	6.0	33.5	6.0	14.0	20.0	38.5	35.5
TRAILBLAZER	64.0	57.0	22.0	22.5	12.0	42.5	57.0	29.5	35.0	12.0	43.5	64.5	18.0	14.0	18.0	19.5	4.5
PICK GH6	7.0	46.5	18.5	11.0	45.0	51.0	60.0	29.5	39.0	5.5	10.5	60.5	13.0	26.0	12.5	16.5	18.0
MESA	11.5	6.0	28.5	16.5	37.0	4.0	51.5	11.5	39.0	49.5	54.5	1.5	18.0	51.5	33.0	43.5	48.0
NORMARC 99	30.5	51.0	28.5	20.0	45.0	51.0	61.0	37.0	62.0	9.0	10.5	33.5	41.0	14.0	1.0	6.5	20.0
CIMMARON	25.5	27.0	25.0	45.0	2.0	37.5	15.5	22.0	27.5	37.5	34.5	16.0	24.0	36.5	49.5	24.5	38.0
PST-5EN	19.5	16.0	.	40.0	19.5	21.0	29.5	22.0	39.0	32.0	30.0	1.5	50.0	22.5	34.5	46.5	35.5
PST-5AG	51.0	32.5	14.0	3.0	31.0	39.5	55.5	22.0	31.5	42.5	26.5	33.5	13.0	16.5	46.5	41.0	24.5
WRANGLER	33.0	34.0	25.0	55.5	38.5	12.0	24.5	29.5	15.0	37.5	26.5	6.5	24.0	61.5	36.5	41.0	27.5
PICK DDF	40.0	31.0	8.5	1.5	58.0	60.0	54.0	48.0	47.0	9.0	10.5	16.0	18.0	42.0	20.0	13.5	9.5
PST-5D1 (ELDORADO)	53.5	27.0	28.5	27.0	25.5	14.0	31.0	37.0	57.0	14.0	20.5	51.5	18.0	39.5	11.0	16.5	20.0
PST-5F2 (WINCHESTER)	55.0	16.0	49.0	59.0	34.0	30.5	22.5	48.0	35.0	28.0	40.5	33.5	46.0	8.0	27.0	37.0	41.0
TITAN	47.5	20.0	57.0	48.5	5.5	11.0	9.0	11.5	13.0	56.5	38.0	6.5	41.0	8.0	49.5	48.5	42.0
APACHE	11.5	36.0	49.0	53.5	12.0	42.5	29.5	4.0	18.0	18.0	30.0	51.5	6.0	38.0	42.0	45.0	27.5
FINELAWN 5GL	35.0	63.0	42.0	33.5	9.0	2.5	19.0	42.5	11.0	56.5	40.5	51.5	51.0	31.5	53.5	51.5	46.0
PST-5DM	51.0	64.0	8.5	16.5	45.0	61.5	41.0	29.5	58.0	22.5	20.5	16.0	54.5	46.0	16.0	21.0	22.0
JAGUAR II	40.0	30.0	34.0	40.0	1.0	42.5	3.0	22.0	39.0	51.5	30.0	16.0	1.0	56.5	51.0	38.5	51.0
PST-DBC	53.5	41.0	52.5	45.0	9.0	35.5	7.5	29.5	24.0	51.5	45.0	16.0	24.0	56.5	43.0	30.0	35.5
JB-2	35.0	51.0	34.0	51.0	22.5	18.5	4.0	58.0	42.0	42.5	54.5	33.5	35.0	59.0	46.5	48.5	49.0

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
CULTIVARS AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING

NAME	AR1	AZ1	CA1	CA2	CA3	DC2	ID2	IL1	IN1	KS1	KS2	MD1	MI1	MO3	NJ1	NJ2	NJ3
TAURUS	30.5	23.0	34.0	27.0	28.5	56.0	47.0	16.0	51.5	37.5	50.0	6.5	28.0	46.0	36.5	50.0	24.5
BAR FA 7851 (BARNONE)	43.5	58.5	34.0	40.0	31.0	8.0	43.0	42.5	22.0	32.0	46.5	51.5	.	10.0	44.0	31.0	31.5
KWS-DUR	57.0	41.0	18.5	33.5	36.0	58.0	1.0	11.5	46.0	18.0	46.5	60.5	41.0	22.5	17.0	16.5	9.5
SUNDANCE	30.5	29.0	55.0	13.0	28.5	30.5	55.5	22.0	51.5	22.5	40.5	51.5	24.0	28.5	25.0	41.0	24.5
BEL 86-2	49.0	41.0	14.0	30.5	58.0	63.0	34.0	58.0	31.5	37.5	26.5	16.0	54.5	42.0	27.0	36.0	31.5
ARID	2.0	51.0	55.0	29.0	25.5	24.5	10.5	55.5	20.0	54.0	48.0	51.5	35.0	34.0	48.0	55.0	43.5
CAREFREE	62.5	6.0	42.0	40.0	4.0	24.5	10.5	53.0	31.5	25.5	20.5	60.5	35.0	28.5	52.0	53.0	52.0
ADVENTURE	60.5	23.0	52.5	51.0	3.0	14.0	27.0	22.0	11.0	47.5	50.0	51.5	30.5	34.0	56.5	54.0	43.5
JAGUAR	51.0	51.0	49.0	27.0	25.5	24.5	45.0	4.0	8.5	49.5	59.0	33.5	54.5	51.5	55.0	51.5	54.5
BEL 86-1	57.0	25.0	34.0	45.0	45.0	28.0	34.0	16.0	48.5	37.5	26.5	33.5	54.5	51.5	31.5	28.0	17.0
PST-5BL (SILVERADO)	37.5	61.5	25.0	36.5	45.0	57.0	36.0	58.0	64.0	16.0	54.5	60.5	35.0	28.5	8.0	8.0	46.0
LEGEND	10.0	60.0	49.0	45.0	63.0	54.5	37.5	53.0	18.0	32.0	34.5	33.5	28.0	59.0	41.0	34.5	53.0
TRIDENT	57.0	23.0	42.0	57.5	19.5	21.0	53.0	29.5	27.5	45.5	50.0	33.5	35.0	39.5	45.0	32.5	64.0
REBEL	7.0	44.5	42.0	33.5	7.0	5.5	37.5	48.0	39.0	55.0	62.0	33.5	18.0	46.0	53.5	57.5	61.0
PST-5D7 (MURIETTA)	65.0	61.5	4.0	4.0	53.0	47.5	58.0	53.0	43.0	22.5	34.5	33.5	58.0	46.0	39.5	22.5	35.5
FALCON	40.0	51.0	58.0	60.0	40.5	37.5	63.0	48.0	56.0	58.0	54.5	33.5	9.0	42.0	59.0	57.5	56.0
PACER	25.5	58.5	59.0	62.0	58.0	16.5	22.5	55.5	54.5	53.0	58.0	33.5	46.0	22.5	56.5	62.0	57.0
FINELAWN I	22.5	55.0	42.0	63.5	53.0	8.0	21.0	48.0	22.0	62.0	60.5	16.0	46.0	63.5	60.0	56.0	62.0
PICK SLD (EMPEROR)	60.5	51.0	22.0	7.0	49.0	65.0	65.0	60.5	59.0	25.5	15.5	33.5	41.0	51.5	27.0	24.5	50.0
WILLAMETTE	19.5	32.5	60.5	61.0	53.0	24.5	27.0	60.5	18.0	61.0	40.5	33.5	54.5	59.0	61.0	59.0	65.0
RICHMOND	59.0	46.5	55.0	53.5	34.0	35.5	32.0	48.0	44.5	60.0	60.5	51.5	35.0	51.5	58.0	60.0	54.5
TIP	43.5	38.5	60.5	57.5	50.0	39.5	45.0	62.0	60.5	59.0	64.0	51.5	46.0	46.0	63.5	64.0	58.0
SYN GA	47.5	36.0	63.0	55.5	62.0	28.0	50.0	65.0	48.5	64.0	54.5	64.5	60.0	61.5	62.0	63.0	59.5
FATIMA	43.5	51.0	62.0	63.5	65.0	21.0	27.0	42.5	63.0	63.0	63.0	33.5	59.0	63.5	63.5	61.0	59.5
KY-31	14.5	65.0	64.0	65.0	64.0	2.5	59.0	64.0	51.5	65.0	65.0	33.5	61.0	65.0	65.0	65.0	63.0

- 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-THREE LOCATIONS IN THE UNITED STATES 1/
 1988 DATA

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

NAME	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	WA4	WA6	MEAN
HUBBARD 87	1.0	1.5	34.5	22.5	4.0	2.0	4.0	10.0	7.5	2.0	10.0	2.5	1.5	6.0	4.5	53.5	1
PE-7E	18.0	12.5	10.5	3.0	9.0	5.5	33.0	34.0	30.0	3.0	5.0	1.0	15.0	53.5	10.5	34.5	2
PST-5MW	5.5	12.5	25.5	28.0	7.5	15.5	24.0	46.0	7.5	5.5	15.5	41.0	15.0	33.0	1.5	3.5	3
NORMARC 25	3.0	12.5	25.5	17.0	25.5	18.0	6.0	46.0	44.5	7.5	22.0	9.5	29.0	10.5	.	19.0	4
PE-7	9.0	19.0	40.5	10.0	25.5	23.0	20.5	34.0	30.0	1.0	6.0	6.0	15.0	14.0	10.5	59.0	5
PST-5HF (AMIGO)	5.5	6.0	42.5	51.5	1.0	34.5	27.5	10.0	44.5	9.0	19.5	35.5	23.5	51.0	10.5	19.0	6
AZTEC	29.0	19.0	57.0	22.5	2.0	61.0	40.5	5.0	30.0	4.0	8.0	25.5	29.0	51.0	25.0	2.0	7
PICK DM	40.5	6.0	20.0	34.0	11.5	55.5	38.0	20.0	16.5	19.5	3.5	44.5	39.0	44.5	10.5	27.5	8
MONARCH	35.0	25.5	57.0	42.5	13.5	38.5	4.0	46.0	16.5	25.0	15.5	13.5	53.0	44.5	44.5	1.0	9
BONANZA	29.0	12.5	1.0	28.0	16.0	45.0	14.0	5.0	44.5	30.5	11.5	13.5	58.0	24.0	35.5	48.0	10
PICK TF9	9.0	1.5	57.0	6.0	23.5	45.0	27.5	61.0	7.5	30.5	15.5	46.5	8.0	56.0	25.0	53.5	11
PICK 127	2.0	12.5	62.5	51.5	3.0	28.0	20.5	55.5	62.5	17.0	15.5	4.5	23.5	19.0	53.5	10.5	12
PICK 845PN	18.0	25.5	47.5	31.5	6.0	15.5	50.0	55.5	30.0	7.5	8.0	4.5	39.0	16.0	10.5	34.5	13
OLYMPIC	5.5	6.0	15.5	22.5	45.0	3.0	14.0	46.0	30.0	34.5	48.5	35.5	29.0	3.5	25.0	27.5	14
NORMARC 77	23.5	19.0	40.5	7.5	21.0	5.5	27.5	55.5	16.5	39.5	19.5	30.0	3.0	28.5	17.0	63.0	15
KWS-BG-6	40.5	36.5	44.5	65.0	30.0	64.0	62.5	1.5	1.0	34.5	24.0	58.5	61.5	62.0	1.5	19.0	16
CHIEFTAIN	18.0	12.5	8.5	12.5	30.0	23.0	8.0	20.0	30.0	30.5	33.0	21.5	8.0	28.5	25.0	59.0	17
THOROUGHbred	40.5	52.5	13.0	22.5	52.5	5.5	2.0	64.5	7.5	25.0	42.5	16.0	29.0	51.0	10.5	10.5	18
PST-5AP	23.5	25.5	42.5	2.0	40.0	34.5	33.0	46.0	30.0	15.5	11.5	30.0	15.0	8.5	4.5	19.0	19
PST-5OL	9.0	6.0	29.5	10.0	33.5	58.0	35.5	34.0	16.5	25.0	38.0	41.0	8.0	44.5	17.0	19.0	20
REBEL II	29.0	42.0	5.5	22.5	27.0	41.0	1.0	63.0	30.0	19.5	39.5	9.5	8.0	33.0	25.0	42.0	21
TRIBUTE	46.5	42.0	31.0	36.5	18.0	34.5	11.5	34.0	30.0	15.5	22.0	9.5	15.0	14.0	17.0	53.5	22
TRAILBLAZER	5.5	3.0	29.5	31.5	33.5	1.0	58.0	1.5	44.5	25.0	22.0	53.5	63.5	60.0	10.5	42.0	23
PICK GH6	12.5	12.5	57.0	12.5	19.0	60.0	38.0	10.0	55.5	25.0	3.5	46.5	39.0	19.0	25.0	48.0	24
MESA	46.5	56.5	20.0	22.5	30.0	30.5	16.5	34.0	55.5	19.5	29.0	17.0	48.0	12.0	35.5	10.5	25
NORMARC 99	18.0	42.0	64.0	58.5	10.0	49.0	42.0	20.0	2.5	5.5	1.0	53.5	29.0	44.5	25.0	42.0	26
CIMMARON	12.5	25.5	5.5	51.5	55.0	62.0	20.5	20.0	7.5	34.5	42.5	21.5	51.0	38.0	35.5	19.0	27
PST-5EN	29.0	6.0	34.5	51.5	20.0	11.5	27.5	20.0	16.5	25.0	29.0	30.0	15.0	14.0	53.5	48.0	28
PST-5AG	52.5	52.5	47.5	17.0	5.0	5.5	4.0	46.0	16.5	61.0	26.5	2.5	23.5	55.0	35.5	19.0	29
WRANGLER	23.5	32.0	34.5	10.0	38.0	9.0	40.5	34.0	30.0	12.0	39.5	7.0	23.5	28.5	62.0	34.5	30
PICK DDF	35.0	56.5	62.5	64.0	11.5	63.0	62.5	55.5	16.5	10.0	2.0	13.5	23.5	44.5	35.5	5.5	31
PST-5D1 (ELDORADO)	52.5	52.5	57.0	48.0	13.5	38.5	52.0	55.5	2.5	39.5	8.0	48.5	1.5	19.0	53.5	42.0	32
PST-5F2 (WINCHESTER)	52.5	36.5	51.0	40.5	45.0	49.0	10.0	20.0	55.5	44.0	25.0	41.0	8.0	1.0	44.5	3.5	33
TITAN	58.5	60.5	5.5	1.0	42.0	55.5	20.5	20.0	44.5	47.5	47.0	21.5	4.5	24.0	35.5	42.0	34
APACHE	29.0	32.0	20.0	28.0	35.5	9.0	33.0	20.0	62.5	51.0	15.5	18.5	15.0	33.0	4.5	64.0	35
FINELAWN 5GL	58.5	36.5	2.0	17.0	39.0	23.0	45.0	5.0	55.5	47.5	50.0	25.5	4.5	3.5	25.0	27.5	36
PST-5DM	18.0	32.0	44.5	38.5	28.0	26.0	11.5	20.0	44.5	44.0	52.0	35.5	58.0	8.5	59.5	10.5	37
JAGUAR II	18.0	25.5	53.0	17.0	15.0	23.0	16.5	64.5	44.5	39.5	33.0	9.5	55.0	24.0	44.5	27.5	38
PST-DBC	23.5	32.0	20.0	5.0	49.5	49.0	48.0	34.0	65.0	13.5	45.5	25.5	20.0	28.5	44.5	10.5	39
JB-2	12.5	25.5	8.5	40.5	49.5	9.0	8.0	10.0	16.5	54.0	57.0	35.5	51.0	19.0	62.0	10.5	40

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE
CULTIVARS AT THIRTY-THREE LOCATIONS IN THE UNITED STATES
1988 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING

NAME	NY1	NY2	OH2	OK1	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA2	VA3	WA4	WA6	MEAN
TAURUS	18.0	42.0	20.0	54.5	45.0	52.0	54.5	34.0	7.5	34.5	54.0	41.0	15.0	58.5	10.5	34.5	41
BAR FA 7851 (BARNONE)	40.5	25.5	34.5	60.5	22.0	53.0	50.0	5.0	30.0	30.5	26.5	21.5	23.5	58.5	44.5	53.5	42
KWS-DUR	46.5	48.0	51.0	56.0	17.0	20.0	35.5	46.0	62.5	39.5	42.5	25.5	39.0	24.0	4.5	62.0	43
SUNDANCE	62.0	60.5	20.0	34.0	41.0	30.5	27.5	55.5	55.5	25.0	36.5	35.5	39.0	3.5	44.5	10.5	44
BEL 86-2	12.5	12.5	25.5	45.0	32.0	11.5	43.0	55.5	55.5	44.0	33.0	13.5	39.0	19.0	17.0	53.5	45
ARID	29.0	25.5	38.5	28.0	52.5	38.5	27.5	20.0	44.5	47.5	48.5	48.5	15.0	3.5	53.5	27.5	46
CAREFREE	29.0	19.0	47.5	48.0	51.0	38.5	54.5	61.0	7.5	47.5	45.5	35.5	58.0	33.0	25.0	10.5	47
ADVENTURE	35.0	19.0	10.5	45.0	35.5	27.0	20.5	5.0	55.5	51.0	59.0	50.5	39.0	57.0	35.5	53.5	48
JAGUAR	46.5	48.0	3.0	4.0	45.0	15.5	8.0	46.0	44.5	51.0	52.0	30.0	39.0	38.0	44.5	34.5	49
BEL 86-1	52.5	56.5	20.0	14.0	54.0	45.0	45.0	34.0	55.5	39.5	33.0	30.0	39.0	38.0	53.5	42.0	50
PST-5BL (SILVERADO)	46.5	42.0	61.0	45.0	7.5	55.5	38.0	34.0	44.5	13.5	33.0	18.5	55.0	61.0	35.5	34.5	51
LEGEND	58.5	56.5	51.0	38.5	37.0	19.0	60.0	20.0	30.0	11.0	29.0	56.0	39.0	10.5	53.5	42.0	52
TRIDENT	35.0	48.0	28.0	54.5	48.0	55.5	58.0	34.0	7.5	19.5	42.5	58.5	48.0	64.0	35.5	42.0	53
REBEL	52.5	42.0	34.5	42.5	56.5	15.5	14.0	46.0	44.5	59.0	52.0	41.0	55.0	49.0	53.5	19.0	54
PST-5D7 (MURIETTA)	40.5	32.0	57.0	60.5	45.0	30.5	47.0	20.0	55.5	54.0	36.5	53.5	65.0	65.0	17.0	42.0	55
FALCON	52.5	48.0	13.0	34.0	56.5	23.0	31.0	10.0	30.0	57.0	55.5	44.5	39.0	7.0	59.5	5.5	56
PACER	40.5	52.5	47.5	36.5	60.0	49.0	50.0	20.0	30.0	56.0	55.5	64.0	39.0	38.0	25.0	19.0	57
FINELAWN I	58.5	48.0	13.0	28.0	58.0	13.0	20.5	46.0	55.5	54.0	62.0	50.5	39.0	38.0	62.0	53.5	58
PICK SLD (EMPEROR)	58.5	63.5	65.0	63.0	23.5	65.0	54.5	46.0	30.0	39.5	15.5	61.5	63.5	44.5	53.5	27.5	59
WILLAMETTE	46.5	36.5	5.5	62.0	62.0	30.5	64.0	20.0	44.5	62.0	59.0	53.5	61.5	24.0	25.0	61.0	60
RICHMOND	35.0	42.0	57.0	57.0	59.0	49.0	54.5	61.0	16.5	59.0	59.0	63.0	60.0	44.5	53.5	59.0	61
TIP	64.0	60.5	38.5	7.5	64.0	34.5	58.0	34.0	16.5	59.0	63.0	58.5	48.0	44.5	53.5	27.5	62
SYN GA	63.0	63.5	15.5	58.5	63.0	43.0	65.0	55.5	30.0	64.0	61.0	65.0	51.0	33.0	35.5	27.5	63
FATIMA	58.5	60.5	34.5	48.0	61.0	42.0	45.0	20.0	62.5	63.0	64.0	58.5	39.0	53.5	44.5	65.0	64
KY-31	65.0	65.0	25.5	17.0	65.0	59.0	61.0	34.0	30.0	65.0	65.0	61.5	39.0	63.0	64.0	53.5	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
1988 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/											MEAN
	AR1	ID2	KS2	MD1	MO3	NJ1	NJ2	NJ3	OH2	OK1	WA4	
KWS-BG-6	8.7	7.7	6.3	4.7	6.7	9.0	9.0	7.7	6.7	8.0	8.7	7.5
PICK DDF (SHORTSTOP)	8.3	5.7	8.0	5.0	6.3	8.3	8.0	7.3	7.0	8.0	7.0	7.2
NORMARC 99	9.0	6.0	7.0	5.0	6.3	8.3	8.7	7.7	6.3	7.3	6.7	7.1
PICK 127	8.7	6.0	7.7	5.7	5.7	8.3	8.0	7.0	6.7	7.3	6.7	7.1
PICK TF9	8.3	6.3	7.7	6.0	5.7	7.3	8.0	7.3	7.0	7.3	6.3	7.0
PICK 845PN	8.0	5.0	7.7	5.7	6.0	8.0	8.0	6.3	6.7	8.0	7.3	7.0
PICK DM	8.0	7.7	7.7	5.3	6.7	7.3	7.0	5.7	6.7	7.3	6.7	6.9
PICK GH6	8.0	6.7	8.0	5.0	6.0	7.3	7.3	6.3	7.3	7.3	6.3	6.9
AZTEC	8.3	6.7	7.7	5.7	6.7	6.7	7.7	5.7	6.7	7.7	6.3	6.9
PE-7	6.7	6.7	7.7	7.0	6.0	7.0	7.0	6.3	6.7	8.0	6.3	6.8
KWS-DUR	8.3	6.7	8.0	4.3	6.0	7.0	8.0	6.7	6.3	6.0	6.7	6.7
HUBBARD 87	6.7	5.7	7.7	5.7	5.0	7.3	8.0	6.7	7.0	7.0	7.0	6.7
PICK SLD (EMPEROR)	7.7	6.7	8.0	4.7	6.0	7.3	6.7	6.0	7.3	7.0	6.0	6.7
PST-5MW	7.3	6.0	8.0	6.0	6.3	7.3	6.7	5.7	6.0	7.0	7.0	6.7
BEL 86-1	6.3	7.0	8.0	5.7	5.3	7.0	6.3	6.3	6.7	7.3	6.7	6.6
PE-7E	6.0	6.0	8.0	6.7	6.0	7.7	7.3	5.7	6.3	6.3	6.7	6.6
PST-5BL (SILVERADO)	8.0	6.7	6.7	4.7	6.3	7.3	7.3	6.7	6.3	7.0	5.3	6.6
PST-5D7 (MURIETTA)	7.7	6.7	6.3	4.7	6.3	7.0	7.7	6.7	6.7	6.3	5.7	6.5
PST-5HF (AMIGO)	6.0	6.7	8.0	5.7	6.3	7.0	7.0	6.0	7.0	6.0	5.7	6.5
TRAILBLAZER	7.3	7.0	8.0	5.0	6.7	7.0	6.0	5.7	6.3	7.0	5.3	6.5
PST-5D1 (ELDORADO)	8.0	6.0	7.7	5.3	7.0	6.3	6.3	5.3	7.0	6.3	5.3	6.4
MONARCH	7.3	6.3	7.0	5.7	5.0	7.0	7.3	6.0	7.0	6.7	5.3	6.4
PST-5DM	7.3	5.7	7.7	4.3	6.0	7.0	7.3	6.7	6.3	6.0	6.0	6.4
BONANZA	6.3	5.3	7.7	6.3	5.3	6.7	7.3	6.3	6.0	6.7	5.7	6.3
NORMARC 25	6.3	7.0	7.3	6.3	5.3	6.0	6.7	4.7	6.3	7.0	.	6.3
TAURUS	6.7	5.3	7.3	7.0	5.7	7.0	6.0	5.0	6.3	6.0	6.7	6.3
PST-5F2 (WINCHESTER)	5.3	5.3	8.0	6.3	6.3	6.0	6.3	5.3	6.7	7.3	5.7	6.2
NORMARC 77	6.7	5.3	8.0	6.7	5.7	6.3	6.3	4.3	6.0	6.3	6.0	6.2
TRIBUTE	6.0	6.3	8.0	5.0	5.7	6.0	6.0	6.0	7.0	5.7	6.0	6.2
PST-5AG	6.0	5.7	7.7	6.0	6.0	6.0	5.7	5.0	6.3	6.3	5.7	6.0
SUNDANCE	6.3	5.3	7.3	5.0	5.3	7.0	6.0	4.0	6.0	6.7	6.0	5.9
CHIEFTAIN	4.7	5.7	7.0	6.3	5.7	5.0	5.7	5.7	6.3	7.0	5.7	5.9
PST-5AP	5.7	5.7	7.3	6.3	5.7	5.3	6.0	4.3	6.3	7.0	5.0	5.9
JAGUAR II	6.0	6.0	7.7	6.7	5.7	5.3	5.3	3.7	6.0	6.3	5.3	5.8
LEGEND	5.3	6.3	7.7	6.3	5.0	6.0	6.0	4.7	6.3	6.0	4.3	5.8
TRIDENT	6.3	5.7	7.3	6.7	5.3	5.3	5.7	3.0	6.7	6.7	5.3	5.8
BAR FA 7851 (BARNONE)	5.7	6.3	7.7	5.0	5.7	5.7	5.3	4.3	6.3	6.7	4.7	5.8
CIMMARON	5.3	6.0	7.7	4.7	5.3	5.3	6.0	4.7	6.0	7.0	5.3	5.8
MESA	5.7	5.7	7.7	5.3	5.7	5.0	5.7	4.3	6.0	6.7	5.7	5.8
BEL 86-2	6.3	5.3	7.3	5.7	5.0	4.7	5.7	5.7	6.0	6.0	5.3	5.7

TABLE 4. (continued)

GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN											
	AR1	ID2	KS2	MD1	MO3	NJ1	NJ2	NJ3	OH2	OK1	WA4	MEAN
CAREFREE	6.0	6.0	7.7	6.3	5.3	4.7	4.7	4.7	6.3	6.3	5.0	5.7
OLYMPIC	6.3	6.0	7.0	6.7	6.0	5.3	5.3	4.0	5.7	5.7	5.0	5.7
PST-50L	5.3	6.0	8.0	6.3	5.3	5.0	5.3	4.3	6.3	6.0	5.0	5.7
PST-DBC	4.7	5.7	7.7	6.0	5.0	6.0	5.7	4.3	6.3	7.0	4.3	5.7
PST-5EN	5.3	5.7	7.3	5.0	6.0	6.0	5.0	4.0	6.7	6.0	5.3	5.7
APACHE	4.7	4.3	8.0	6.3	6.0	4.7	5.3	4.0	6.3	6.3	6.0	5.6
THOROUGHbred	5.3	6.0	7.0	5.0	5.7	5.0	5.7	3.7	6.7	6.3	5.0	5.6
PACER	4.7	6.0	7.3	5.3	5.7	5.3	4.7	4.0	6.3	6.3	5.3	5.5
WRANGLER	5.3	4.3	7.7	5.3	5.7	6.0	6.3	4.7	5.7	5.3	4.3	5.5
REBEL II	5.0	5.7	7.0	6.7	5.0	5.0	5.3	3.3	5.7	5.7	5.3	5.4
FINELAWN 5GL	5.3	5.3	7.3	4.0	5.0	4.3	5.3	4.7	7.0	5.7	4.7	5.3
JB-2	4.7	5.0	7.3	5.3	5.7	4.7	5.3	4.3	6.0	5.3	4.7	5.3
TITAN	5.7	5.0	7.3	5.3	5.0	4.3	5.7	3.0	6.3	6.0	4.7	5.3
WILLAMETTE	5.3	5.7	7.3	5.7	5.0	4.7	4.0	2.3	5.7	5.7	5.0	5.1
RICHMOND	4.7	5.3	7.0	4.7	5.3	4.7	4.0	3.0	6.3	5.7	4.3	5.0
ADVENTURE	4.3	5.7	7.3	5.3	6.0	4.0	4.0	2.3	6.0	5.7	4.3	5.0
FALCON	4.0	5.7	7.0	6.3	5.3	4.3	3.7	3.3	5.7	5.3	4.3	5.0
FATIMA	4.7	6.3	7.0	6.0	5.0	3.3	3.7	2.3	6.3	5.0	5.0	5.0
REBEL	4.0	6.0	7.0	5.7	5.3	4.0	4.0	2.3	6.0	5.3	5.0	5.0
JAGUAR	4.7	6.0	7.0	5.3	5.3	4.3	4.3	2.0	5.3	5.3	4.7	4.9
ARID	4.7	5.3	7.0	6.3	5.3	4.0	4.0	3.0	5.7	5.3	3.7	4.9
TIP	4.7	5.3	7.0	5.7	5.0	4.7	3.0	2.3	6.3	6.0	4.0	4.9
FINELAWN I	5.3	5.7	6.7	5.3	5.0	4.0	4.0	2.7	6.0	5.3	4.0	4.9
SYN GA	4.3	5.3	7.0	5.3	5.0	3.7	3.3	2.3	5.7	6.0	5.0	4.8
KY-31	3.7	3.7	6.3	5.7	4.7	2.3	2.7	2.0	5.0	5.0	2.3	3.9
LSD VALUE	1.2	1.7	0.8	2.3	1.1	1.0	1.1	1.3	0.9	1.3	1.5	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
1988 DATA

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

NAME	MO3	MEAN
BAR FA 7851 (BARNONE)	8.0	8.0
BEL 86-1	8.0	8.0
ADVENTURE	7.7	7.7
CIMMARON	7.7	7.7
KY-31	7.7	7.7
PST-5HF (AMIGO)	7.7	7.7
TITAN	7.7	7.7
ARID	7.0	7.0
BONANZA	7.0	7.0
FINELAWN 5GL	7.0	7.0
MESA	7.0	7.0
PACER	7.0	7.0
PST-5DM	7.0	7.0
PST-5OL	7.0	7.0
REBEL II	7.0	7.0
SUNDANCE	7.0	7.0
THOROUGHbred	7.0	7.0
TRIBUTE	7.0	7.0
CAREFREE	6.7	6.7
FALCON	6.7	6.7
HUBBARD 87	6.7	6.7
NORMARC 25	6.7	6.7
OLYMPIC	6.7	6.7
PICK 127	6.7	6.7
PST-5F2 (WINCHESTER)	6.7	6.7
PST-5MW	6.7	6.7
TIP	6.7	6.7
WRANGLER	6.7	6.7
AZTEC	6.3	6.3
PE-7	6.3	6.3
PICK TF9	6.3	6.3
PST-5AG	6.3	6.3
FINELAWN I	6.0	6.0
NORMARC 77	6.0	6.0
PST-5AP	6.0	6.0
PST-DBC	6.0	6.0
REBEL	6.0	6.0
FATIMA	5.7	5.7
LEGEND	5.7	5.7
PICK DM	5.7	5.7

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	MO3	MEAN
RICHMOND	5.7	5.7
SYN GA	5.7	5.7
APACHE	5.3	5.3
CHIEFTAIN	5.3	5.3
JB-2	5.3	5.3
MONARCH	5.3	5.3
PICK 845FN	5.3	5.3
PICK DDF (SHORTSTOP)	5.3	5.3
PST-5EN	5.3	5.3
TAURUS	5.3	5.3
TRIDENT	5.3	5.3
JAGUAR	5.0	5.0
TRAILBLAZER	5.0	5.0
WILLAMETTE	5.0	5.0
JAGUAR II	4.7	4.7
KWS-DUR	4.7	4.7
NORMARC 99	4.7	4.7
PE-7E	4.7	4.7
PICK GH6	4.7	4.7
PST-5BL (SILVERADO)	4.7	4.7
PST-5D1 (ELDORADO)	4.7	4.7
BEL 86-2	4.3	4.3
PST-5D7 (MURIETTA)	4.3	4.3
KWS-BG-6	3.3	3.3
PICK SLD (EMPEROR)	3.3	3.3
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).

TABLE 6. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	AZ1	MI1	NJ3	MEAN
KWS-BG-6	6.7	.	7.0	6.8
AZTEC	6.0	6.3	7.0	6.4
PICK DM	6.7	5.3	6.7	6.2
PICK DDF (SHORTSTOP)	7.0	5.7	5.7	6.1
EST-5MW	5.7	5.7	7.0	6.1
EE-7	6.0	6.3	6.0	6.1
EST-5D7 (MURIETTA)	6.0	7.0	5.3	6.1
BEL 86-2	6.0	6.3	5.7	6.0
CAREFREE	6.0	6.3	5.7	6.0
EE-7E	6.3	.	5.7	6.0
PICK SLD (EMPEROR)	6.0	6.7	5.3	6.0
EST-5D1 (ELDORADO)	6.0	5.7	6.3	6.0
REBEL II	5.7	6.0	6.3	6.0
THOROUGHBRED	6.3	5.7	6.0	6.0
TRAILBLAZER	5.3	7.0	5.7	6.0
HUBBARD 87	5.7	5.7	6.3	5.9
PICK TF9	6.3	5.7	5.7	5.9
EST-5AG	6.0	6.0	5.7	5.9
EST-5BL (SILVERADO)	5.3	6.7	5.7	5.9
EST-5F2 (WINCHESTER)	5.7	6.3	5.7	5.9
MONARCH	5.7	5.7	6.0	5.8
APACHE	6.0	6.3	5.0	5.8
KWS-DUR	6.0	6.3	5.0	5.8
LEGEND	6.3	5.7	5.3	5.8
PICK 127	6.3	5.0	6.0	5.8
PICK 845PN	5.3	6.0	6.0	5.8
EST-5HF (AMIGO)	6.0	5.0	6.3	5.8
EST-5OL	6.0	5.3	6.0	5.8
SUNDANCE	6.0	6.0	5.3	5.8
CHIEFTAIN	5.3	5.7	6.0	5.7
FINELAWN 5GL	5.3	6.0	5.7	5.7
NORMARC 99	5.3	6.0	5.7	5.7
EST-5DM	5.7	6.0	5.3	5.7
EST-5EN	5.7	6.0	5.3	5.7
WRANGLER	5.3	6.0	5.7	5.7
CIMMARON	5.7	5.7	5.3	5.6
TRIBUTE	5.3	5.7	5.7	5.6
TAURUS	5.3	6.0	5.3	5.6
BONANZA	5.3	5.3	5.7	5.4
JAGUAR	5.7	5.3	5.3	5.4

LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	AZ1	MI1	NJ3	MEAN
PICK GH6	5.3	5.0	6.0	5.4
PST-5AP	5.3	5.0	6.0	5.4
EEL 86-1	5.0	5.3	5.7	5.3
JAGUAR II	4.7	6.0	5.3	5.3
MESA	6.0	5.0	5.0	5.3
OLYMPIC	6.0	4.7	5.3	5.3
PACER	5.3	5.7	5.0	5.3
ARID	4.3	5.7	5.7	5.2
FALCON	5.7	5.0	5.0	5.2
JB-2	5.0	5.3	5.3	5.2
ADVENTURE	5.7	5.7	4.0	5.1
PST-DBC	4.7	5.0	5.7	5.1
TRIDENT	6.0	6.7	2.7	5.1
WILLAMETTE	6.0	6.0	3.3	5.1
TITAN	4.7	5.3	5.3	5.1
BAR FA 7851 (BARNONE)	5.3	.	4.7	5.0
NORMARC 25	5.7	.	4.3	5.0
NORMARC 77	5.0	5.0	4.7	4.9
TIP	5.3	4.7	4.7	4.9
SYN GA	5.0	5.3	4.0	4.8
FINELAWN I	5.0	5.0	4.0	4.7
REBEL	4.7	4.7	4.7	4.7
RICHMOND	4.3	4.7	4.7	4.6
FATIMA	4.3	5.3	3.3	4.3
KY-31	4.7	5.3	3.0	4.3
LSD VALUE	1.3	1.1	1.5	0.8

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

TABLE 7. SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM 1/

NAME	AZ1	ID2	KS2	MO3	WA4	WA5	MEAN
JAGUAR	5.3	4.7	7.0	8.0	4.7	6.3	6.0
KY-31	5.7	3.0	8.0	7.0	5.7	6.5	6.0
BEL 86-1	5.3	5.7	6.7	7.7	4.3	5.7	5.9
FINELAWN I	5.3	5.0	7.3	7.0	4.0	6.3	5.8
TRIDENT	5.7	4.0	7.0	7.7	4.3	6.0	5.8
TITAN	6.0	1.7	7.7	8.3	4.7	6.0	5.7
THOROUGHbred	6.3	4.3	7.0	7.3	5.3	4.0	5.7
ADVENTURE	6.0	3.7	6.3	7.7	4.0	6.3	5.7
APACHE	5.0	3.7	7.3	7.7	5.3	4.7	5.6
NORMARC 25	5.0	2.7	7.0	8.7	.	4.7	5.6
PE-7E	4.3	4.7	6.7	7.7	5.3	4.7	5.6
CIMMARON	4.7	5.0	6.0	7.3	4.0	6.0	5.5
FINELAWN 5GL	5.3	4.0	6.3	7.7	4.7	5.0	5.5
OLYMPIC	5.0	2.3	7.0	8.0	4.7	5.7	5.4
PST-5EN	5.7	3.7	7.0	8.0	5.3	3.0	5.4
TRAILBLAZER	4.7	2.0	6.7	8.3	5.3	5.5	5.4
WILLAMETTE	4.3	4.7	6.3	7.7	5.0	4.5	5.4
HUBBARD 87	4.3	3.7	6.7	8.7	4.0	4.7	5.3
PE-7	5.0	1.7	6.7	8.3	4.0	6.3	5.3
RICHMOND	4.0	3.7	6.3	7.3	5.0	5.7	5.3
MESA	5.0	2.0	7.0	8.0	3.3	6.5	5.3
PACER	5.3	2.7	6.3	7.3	4.0	6.0	5.3
WRANGLER	5.3	3.3	6.7	7.7	3.3	5.3	5.3
PST-5HF (AMIGO)	4.3	3.0	6.7	7.0	6.0	4.5	5.3
CAREFREE	5.0	3.3	6.0	7.0	4.3	5.5	5.2
FATIMA	5.0	3.0	5.7	7.0	4.7	5.5	5.1
PST-5BL (SILVERADO)	4.3	2.0	6.0	8.0	5.3	5.0	5.1
CHIEFTAIN	5.0	3.0	7.3	7.0	4.0	4.0	5.1
BAR FA 7851 (BARNONE)	4.3	2.3	7.0	8.0	4.3	4.3	5.1
PST-5F2 (WINCHESTER)	4.7	2.0	6.0	8.0	4.3	5.0	5.0
REBEL II	4.3	3.0	7.3	7.7	3.7	4.0	5.0
ARID	4.7	2.3	6.7	7.3	4.7	4.0	4.9
MONARCH	4.3	1.7	6.7	7.7	5.0	4.3	4.9
PST-5DM	5.3	2.0	6.7	7.0	4.0	4.7	4.9
PST-5OL	4.3	2.0	6.3	7.3	4.7	5.0	4.9
FALCON	5.7	1.3	6.3	7.3	4.0	5.0	4.9
JB-2	5.3	1.7	6.3	8.0	4.3	4.0	4.9
BONANZA	3.7	4.3	6.3	7.3	4.3	3.3	4.9
BEL 86-2	5.3	2.0	6.3	7.7	4.7	3.0	4.8
LEGEND	3.7	2.7	5.7	7.7	4.0	5.3	4.8

TABLE 7. SEEDLING VIGOR RATINGS OF TALL FESCUE CULTIVARS
(continued) 1988 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM							
NAME	AZ1	ID2	KS2	MO3	WA4	WA5	MEAN
PST-5MW	3.7	1.7	5.3	7.7	4.3	6.3	4.8
SUNDANCE	3.7	3.7	6.3	8.0	3.3	4.0	4.8
NORMARC 77	4.7	3.0	6.7	8.0	2.7	3.7	4.8
TIP	4.7	2.3	6.7	7.3	4.0	3.5	4.8
PST-5AG	4.0	2.0	6.3	8.0	4.0	4.0	4.7
PICK DM	4.0	3.0	5.7	7.7	3.3	4.5	4.7
TRIBUTE	5.0	1.7	6.3	7.3	4.3	3.5	4.7
JAGUAR II	5.0	3.0	6.3	8.0	2.7	3.0	4.7
SYN GA	4.0	2.0	6.7	7.0	4.7	3.7	4.7
PST-5D1 (ELDORADO)	3.0	3.0	6.3	7.7	4.0	3.5	4.6
AZTEC	3.3	2.3	6.0	8.7	3.3	3.7	4.6
REBEL	4.3	2.7	5.7	7.7	2.7	4.3	4.6
PICK TF9	3.7	1.7	5.7	7.3	4.0	5.0	4.6
PST-5AP	4.0	1.3	6.7	7.0	4.0	4.3	4.6
TAURUS	5.0	1.7	6.0	7.3	3.0	4.3	4.6
PICK GH6	3.7	2.0	6.3	7.7	4.0	3.3	4.5
PICK 845PN	4.3	2.3	5.7	7.7	3.3	3.5	4.5
PST-5D7 (MURIETTA)	3.3	3.0	6.3	7.3	4.0	2.7	4.4
PICK 127	3.7	1.7	6.0	7.7	3.0	4.3	4.4
KWS-BG-6	3.3	1.7	5.0	8.0	3.0	5.0	4.3
PICK DDF (SHORTSTOP)	3.3	2.0	5.7	7.3	4.7	3.0	4.3
PST-DBC	4.0	2.0	6.0	7.0	5.0	2.0	4.3
KWS-DUR	3.7	2.7	5.3	8.0	3.0	2.5	4.2
NORMARC 99	3.3	1.7	5.3	7.0	2.3	4.0	3.9
PICK SLD (EMPEROR)	3.0	1.7	5.3	7.7	2.7	2.7	3.8
LSD VALUE	1.7	2.0	1.1	1.4	2.4	2.9	0.8

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

TABLE 8. FALL COLOR RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	AZ1	OH2	MEAN
KWS-BG-6	7.7	8.0	7.8
PICK SLD (EMPEROR)	6.7	8.0	7.3
NORMARC 99	6.5	8.0	7.3
PICK DM	7.5	7.0	7.3
PICK DDF (SHORTSTOP)	7.3	7.0	7.2
PICK TF9	7.0	7.3	7.2
HUBBARD 87	6.7	7.3	7.0
KWS-DUR	6.3	7.7	7.0
PICK 127	6.7	7.3	7.0
PST-5HF (AMIGO)	6.7	7.3	7.0
PST-5MW	7.0	7.0	7.0
TAURUS	6.3	7.7	7.0
WILLAMETTE	7.0	7.0	7.0
CHIEFTAIN	6.7	7.0	6.8
CIMMARON	6.7	7.0	6.8
FATIMA	6.7	7.0	6.8
PE-7	6.7	7.0	6.8
PST-5BL (SILVERADO)	6.7	7.0	6.8
PST-5D1 (ELDORADO)	6.3	7.3	6.8
AZTEC	6.5	7.0	6.8
BAR FA 7851 (BARNONE)	6.5	7.0	6.8
FALCON	6.5	7.0	6.8
FINELAWN 5GL	6.5	7.0	6.8
JAGUAR II	6.5	7.0	6.8
MONARCH	6.5	7.0	6.8
PST-5AG	6.5	7.0	6.8
PST-5D7 (MURIETTA)	6.5	7.0	6.8
RICHMOND	6.5	7.0	6.8
THOROUGHbred	6.5	7.0	6.8
TRIBUTE	6.5	7.0	6.8
CAREFREE	6.3	7.0	6.7
MESA	6.3	7.0	6.7
NORMARC 25	6.3	7.0	6.7
NORMARC 77	6.3	7.0	6.7
OLYMPIC	6.3	7.0	6.7
PE-7E	6.0	7.3	6.7
PICK GH6	6.0	7.3	6.7
PST-5AP	6.3	7.0	6.7
PST-5OL	6.3	7.0	6.7
REBEL	6.0	7.3	6.7

FALL COLOR RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

FALL COLOR RATINGS 1-9; 9=DARK GREEN

NAME	AZ1	OH2	MEAN
SUNDANCE	6.0	7.3	6.7
SYN GA	6.3	7.0	6.7
TRAILBLAZER	6.0	7.3	6.7
TRIDENT	6.3	7.0	6.7
APACHE	6.0	7.0	6.5
ARID	6.0	7.0	6.5
BEL 86-1	6.0	7.0	6.5
BEL 86-2	6.0	7.0	6.5
BONANZA	6.0	7.0	6.5
FINELAWN I	6.0	7.0	6.5
JAGUAR	6.0	7.0	6.5
PICK 845PN	6.0	7.0	6.5
PST-5DM	6.0	7.0	6.5
PST-5EN	6.0	7.0	6.5
PST-5F2 (WINCHESTER)	6.0	7.0	6.5
REBEL II	6.0	7.0	6.5
TIP	6.0	7.0	6.5
TITAN	6.0	7.0	6.5
WRANGLER	6.0	7.0	6.5
ADVENTURE	6.0	6.7	6.3
LEGEND	5.0	7.7	6.3
PACER	6.0	6.7	6.3
JB-2	5.5	7.0	6.3
PST-DBC	5.7	6.3	6.0
KY-31	5.5	6.3	5.9
LSD VALUE	1.1	0.6	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 9. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/

NAME	AR1	AZ1	MO3	OH2	MEAN
TITAN	5.7	8.0	8.0	8.0	7.4
OLYMPIC	6.7	7.7	7.0	7.7	7.3
CIMMARON	5.0	8.7	7.3	8.0	7.3
BONANZA	5.0	7.7	8.0	8.0	7.2
APACHE	5.7	8.0	7.7	7.0	7.1
KY-31	6.7	7.3	6.7	7.7	7.1
CHIEFTAIN	5.0	8.0	7.3	8.0	7.1
SUNDANCE	5.0	8.0	8.0	7.3	7.1
PST-DBC	5.3	8.3	6.7	7.7	7.0
FALCON	5.7	8.0	7.3	7.0	7.0
FINELAWN 5GL	5.3	8.0	7.0	7.7	7.0
FINELAWN I	5.7	7.3	7.0	8.0	7.0
PST-SEN	5.7	7.7	7.3	7.3	7.0
REBEL II	6.3	7.0	7.0	7.7	7.0
ARID	6.0	7.3	7.7	6.7	6.9
NORMARC 25	5.0	7.7	7.3	7.7	6.9
MESA	6.0	7.0	7.3	7.3	6.9
THOROUGHbred	5.7	7.0	7.3	7.3	6.8
JAGUAR	4.7	7.3	7.0	8.0	6.8
NORMARC 77	5.7	7.0	7.3	7.0	6.8
PE-7	5.0	7.0	8.0	7.0	6.8
SYN GA	5.3	6.7	7.3	7.7	6.8
ADVENTURE	4.7	7.3	7.0	7.7	6.7
BAR FA 7851 (BARNONE)	5.3	7.7	7.0	6.7	6.7
BEL 86-2	4.7	7.7	7.7	6.7	6.7
KWS-BG-6	6.0	6.7	7.3	6.7	6.7
PICK 845FN	4.7	8.0	7.7	6.3	6.7
PICK GH6	5.3	8.0	7.7	5.7	6.7
PST-SOL	5.7	6.3	7.7	7.0	6.7
TAURUS	4.3	8.3	7.0	7.0	6.7
PST-SAG	5.3	7.0	8.0	6.3	6.7
REBEL	5.3	7.3	7.0	7.0	6.7
PST-5AP	5.0	7.0	7.7	6.7	6.6
PST-5HF (AMIGO)	5.0	7.7	7.0	6.7	6.6
TRIBUTE	4.7	8.0	7.0	6.7	6.6
BEL 86-1	5.3	7.0	6.7	7.3	6.6
HUBBARD 87	5.0	6.3	8.0	7.0	6.6
JB-2	4.3	8.0	7.3	6.7	6.6
TRIDENT	5.0	7.0	7.0	7.3	6.6
WILLAMETTE	5.3	6.7	7.0	7.3	6.6

SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM

NAME	AR1	AZ1	MO3	OH2	MEAN
WRANGLER	5.3	7.3	7.0	6.7	6.6
FATIMA	5.0	7.0	6.7	7.3	6.5
PICK 127	5.7	7.3	7.0	6.0	6.5
PST-SMW	3.7	7.3	8.0	7.0	6.5
TRAILBLAZER	4.3	7.3	7.7	6.7	6.5
AZTEC	5.3	7.0	7.7	5.7	6.4
PE-7E	4.7	7.0	7.0	7.0	6.4
PICK DM	4.0	8.0	7.7	6.0	6.4
CAREFREE	4.7	7.3	7.3	6.3	6.4
JAGUAR II	5.0	6.7	7.3	6.3	6.3
KWS-DUR	5.0	7.3	7.7	5.3	6.3
LEGEND	5.3	6.7	7.3	6.0	6.3
MONARCH	5.0	6.7	7.3	6.0	6.3
PST-5F2 (WINCHESTER)	4.0	7.0	7.3	6.7	6.3
PICK TF9	4.7	6.7	7.3	6.0	6.2
PST-5DM	4.3	6.7	7.3	6.0	6.1
PACER	5.3	5.7	7.0	6.0	6.0
PST-5D1 (ELDORADO)	4.3	7.0	7.0	5.7	6.0
TIP	5.0	6.7	7.0	5.3	6.0
PST-SBL (SILVERADO)	4.7	6.3	7.0	5.7	5.9
RICHMOND	4.7	6.0	7.3	5.3	5.8
PICK SLD (EMPEROR)	3.7	7.3	7.0	5.0	5.8
NORMARC 99	4.7	5.0	7.7	5.0	5.6
PST-5D7 (MURIETTA)	3.0	5.3	7.7	5.3	5.3
PICK DDF (SHORTSTOP)	4.0	4.3	7.0	5.3	5.2
LSD VALUE	1.3	1.9	0.9	1.4	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 10. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/

NAME	AZ1	MEAN
MESA	9.0	9.0
PICK DDF (SHORTSTOP)	9.0	9.0
PST-5MW	9.0	9.0
AZTEC	8.7	8.7
KWS-BG-6	8.7	8.7
KY-31	8.7	8.7
PICK 127	8.7	8.7
PICK DM	8.7	8.7
PICK SLD (EMPEROR)	8.7	8.7
PST-5BL (SILVERADO)	8.7	8.7
PST-5D1 (ELDORADO)	8.7	8.7
PST-5DM	8.7	8.7
PST-5F2 (WINCHESTER)	8.7	8.7
REBEL II	8.7	8.7
THOROUGHBRED	8.7	8.7
TRIDENT	8.7	8.7
WILLAMETTE	8.7	8.7
ARID	8.3	8.3
BAR FA 7851 (BARNONE)	8.3	8.3
BONANZA	8.3	8.3
JAGUAR II	8.3	8.3
OLYMPIC	8.3	8.3
PACER	8.3	8.3
PE-7	8.3	8.3
PE-7E	8.3	8.3
PST-5EN	8.3	8.3
PST-5OL	8.3	8.3
REBEL	8.3	8.3
SUNDANCE	8.3	8.3
TRAILBLAZER	8.3	8.3
TRIBUTE	8.3	8.3
WRANGLER	8.3	8.3
ADVENTURE	8.0	8.0
BEL 86-1	8.0	8.0
CAREFREE	8.0	8.0
CHIEFTAIN	8.0	8.0
FATIMA	8.0	8.0
HUBBARD 87	8.0	8.0
JAGUAR	8.0	8.0
JB-2	8.0	8.0

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM

NAME	AZ1	MEAN
KWS-DUR	8.0	8.0
NORMARC 25	8.0	8.0
PICK 845FN	8.0	8.0
PICK GH6	8.0	8.0
PICK TF9	8.0	8.0
PST-5AP	8.0	8.0
PST-5D7 (MURIETTA)	8.0	8.0
PST-5HF (AMIGO)	8.0	8.0
SYN GA	8.0	8.0
TAURUS	8.0	8.0
TITAN	8.0	8.0
BEL 86-2	7.7	7.7
FALCON	7.7	7.7
FINELAWN I	7.7	7.7
MONARCH	7.7	7.7
PST-DBC	7.7	7.7
RICHMOND	7.7	7.7
CIMMARON	7.3	7.3
FINELAWN 5GL	7.3	7.3
LEGEND	7.3	7.3
NORMARC 77	7.3	7.3
NORMARC 99	7.3	7.3
PST-5AG	7.3	7.3
TIP	7.3	7.3
APACHE	7.0	7.0
LSD VALUE	1.6	1.6

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 11. FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM 1/

NAME	AZ1	CA1	ID2	OK1	WA4	MEAN
PE-7E	8.0	7.3	7.0	7.3	6.7	7.3
NORMARC 25	8.0	7.0	7.7	5.7	.	7.1
PICK DM	8.0	7.7	7.7	5.3	6.7	7.1
PST-5AP	8.0	6.7	6.7	7.3	6.3	7.0
TRIBUTE	7.0	7.0	7.7	6.7	6.7	7.0
TITAN	8.0	6.3	7.0	7.3	6.0	6.9
BONANZA	8.0	7.3	6.3	7.0	5.7	6.9
NORMARC 77	7.7	7.3	7.0	7.3	5.0	6.9
PICK 845FN	8.0	7.3	6.0	6.3	6.7	6.9
TRAILBLAZER	8.0	7.3	7.3	5.7	6.0	6.9
BEL 86-1	8.0	7.3	6.7	6.7	5.3	6.8
HUBBARD 87	8.0	7.3	7.0	5.7	6.0	6.8
PE-7	7.3	7.0	7.3	6.3	6.0	6.8
PST-5OL	7.3	7.3	6.7	6.3	6.3	6.8
THOROUGHBRED	8.0	6.7	6.3	6.0	7.0	6.8
AZTEC	7.5	7.3	7.7	5.3	6.0	6.8
PST-DBC	8.0	7.0	6.7	7.0	5.0	6.7
APACHE	7.3	6.7	6.3	6.7	6.7	6.7
CAREFREE	7.7	7.0	8.0	4.3	6.7	6.7
PICK TF9	8.0	7.3	6.7	6.0	5.7	6.7
PST-5MW	8.0	7.3	6.3	4.7	7.3	6.7
JAGUAR	7.5	6.7	7.0	6.7	5.7	6.7
ADVENTURE	8.0	5.7	7.0	6.7	6.0	6.7
OLYMPIC	8.0	7.0	6.0	6.0	6.3	6.7
PST-5AG	8.0	7.0	6.3	6.7	5.3	6.7
PST-5HF (AMIGO)	8.0	7.7	6.3	5.7	5.7	6.7
RICHMOND	8.0	6.7	7.7	4.3	6.7	6.7
LEGEND	8.0	7.0	7.0	6.3	5.0	6.7
FINELAWN 5GL	6.5	6.0	7.3	6.7	6.7	6.6
JAGUAR II	8.0	6.7	7.7	5.7	5.0	6.6
KWS-BG-6	8.0	7.0	7.3	4.0	6.7	6.6
MESA	7.3	7.3	6.7	6.3	5.3	6.6
WRANGLER	8.0	7.0	7.0	6.3	4.7	6.6
PST-5DM	8.0	7.7	7.0	5.0	5.0	6.5
JB-2	7.5	6.0	7.3	5.3	6.3	6.5
TAURUS	7.7	7.0	5.7	6.0	6.0	6.5
ARID	7.0	6.3	7.0	6.0	6.0	6.5
MONARCH	7.5	7.0	6.3	6.0	5.3	6.4
CHIEFTAIN	8.0	6.3	5.7	6.7	5.3	6.4
FATIMA	8.0	5.3	6.7	5.3	6.7	6.4

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM

NAME	AZ1	CA1	ID2	OK1	WA4	MEAN
KWS-DUR	6.3	6.7	7.0	4.7	7.0	6.3
TRIDENT	7.7	6.7	6.0	5.7	5.7	6.3
PICK 127	8.0	7.3	6.3	5.0	5.0	6.3
PICK GH6	8.0	7.3	6.0	5.0	5.3	6.3
PST-5EN	8.0	.	6.7	5.3	5.3	6.3
PACER	7.0	5.7	6.7	6.0	6.0	6.3
PST-5D1 (ELDORADO)	7.7	7.0	6.3	5.7	4.7	6.3
BEL 86-2	8.0	7.0	6.0	5.0	5.3	6.3
PICK DDF (SHORTSTOP)	8.0	7.3	7.0	3.7	5.3	6.3
SUNDANCE	7.0	6.3	6.3	5.7	6.0	6.3
PST-5D7 (MURIETTA)	6.5	7.3	6.0	5.3	6.0	6.2
PST-5F2 (WINCHESTER)	8.0	7.0	6.0	4.7	5.3	6.2
REBEL	7.0	6.7	7.3	4.3	5.7	6.2
TIP	7.5	5.3	6.3	5.3	6.3	6.2
CIMMARON	7.3	6.7	6.7	4.3	5.7	6.1
FINELAWN I	6.0	6.7	6.3	6.0	5.7	6.1
PICK SLD (EMPEROR)	6.7	7.3	7.3	4.3	5.0	6.1
REBEL II	7.5	6.7	6.0	5.0	5.3	6.1
WILLAMETTE	7.5	5.7	6.3	4.7	6.3	6.1
PST-5BL (SILVERADO)	6.7	6.7	7.0	5.3	4.7	6.1
BAR FA 7851 (BARNONE)	8.0	7.0	5.7	4.3	5.3	6.1
SYN GA	8.0	5.7	6.7	4.7	5.0	6.0
KY-31	7.5	5.0	5.3	5.7	5.0	5.7
FALCON	5.5	5.3	6.3	5.7	5.3	5.6
NORMARC 99	7.5	6.3	5.3	4.0	5.0	5.6
LSD VALUE	1.4	0.9	1.6	1.9	1.9	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 12. PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/

NAME	AZ1	MO3	OK1	VA2	VA3	WA6	MEAN
THOROUGHbred	96.3	93.3	86.7	71.7	91.7	83.0	87.1
REBEL II	97.7	95.0	80.0	71.7	93.3	71.7	84.9
WILLAMETTE	95.0	96.0	75.0	66.7	93.3	81.3	84.6
NORMARC 25	96.3	97.0	76.7	66.7	93.3	75.0	84.2
PST-5AP	91.7	95.0	75.0	68.3	95.0	79.7	84.1
KY-31	96.3	91.0	83.3	66.7	91.7	75.0	84.0
JAGUAR II	96.3	94.3	75.0	70.0	90.0	76.7	83.7
PST-5EN	96.3	94.3	75.0	68.3	93.3	75.0	83.7
OLYMPIC	95.0	94.3	78.3	68.3	93.3	71.7	83.5
CAREFREE	95.0	97.0	75.0	66.7	91.7	75.0	83.4
TIP	95.0	91.7	76.7	60.0	88.3	88.3	83.3
SUNDANCE	95.0	94.3	71.7	68.3	95.0	75.0	83.2
JB-2	95.0	91.0	76.7	66.7	91.7	78.0	83.2
PST-DBC	96.3	92.7	81.7	66.7	91.7	70.0	83.2
PST-5AG	91.7	95.3	80.0	73.3	93.3	65.0	83.1
FINELAWN 5GL	96.3	92.7	78.3	70.0	93.3	66.7	82.9
MESA	95.0	93.3	78.3	70.0	91.7	68.3	82.8
PE-7	93.3	96.0	81.7	70.0	93.3	60.0	82.4
CHIEFTAIN	96.3	92.7	76.7	71.7	93.3	63.3	82.3
TRAILBLAZER	96.3	94.3	78.3	70.0	91.7	63.3	82.3
APACHE	96.3	91.0	75.0	71.7	91.7	66.7	82.1
PST-5HF (AMIGO)	93.0	95.0	76.7	68.3	90.0	68.3	81.9
TITAN	95.0	98.0	80.0	70.0	90.0	58.3	81.9
SYN GA	91.7	96.0	70.0	63.3	91.7	78.3	81.8
FALCON	94.7	92.7	73.3	70.0	95.0	65.0	81.8
LEGEND	93.3	93.3	70.0	66.7	95.0	71.7	81.7
NORMARC 77	94.7	97.0	73.3	68.3	90.0	66.7	81.7
WRANGLER	95.0	93.3	75.0	70.0	93.3	63.3	81.7
PST-5MW	96.3	95.0	66.7	68.3	91.7	71.7	81.6
PACER	93.3	96.0	73.3	66.7	91.7	68.3	81.6
FINELAWN I	93.0	91.0	78.3	70.0	90.0	66.7	81.5
TRIDENT	95.0	91.7	76.7	58.3	88.3	78.3	81.4
FATIMA	94.7	88.3	70.0	63.3	93.3	78.3	81.3
PE-7E	91.7	96.3	80.0	66.7	90.0	63.3	81.3
PST-5F2 (WINCHESTER)	91.7	95.3	63.3	70.0	93.0	73.0	81.1
JAGUAR	93.3	96.0	81.7	68.3	91.7	55.0	81.0
ARID	94.7	94.3	73.3	65.0	91.7	66.7	80.9
BAR FA 7851 (BARNONE)	94.7	92.7	73.3	63.3	91.7	70.0	80.9
PICK 845PN	96.3	91.0	70.0	61.7	91.7	75.0	80.9
PST-5OL	93.3	91.7	76.7	68.3	91.7	63.3	80.8

TABLE 12. PERCENT LIVING GROUND COVER (SPRING)
 (continued) RATINGS OF TALL FESCUE CULTIVARS
 1988 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	AZ1	MO3	OK1	VA2	VA3	WA6	MEAN
PST-5D1 (ELDORADO)	93.3	90.0	71.7	65.0	93.3	70.0	80.6
MONARCH	91.7	96.0	78.3	63.3	90.0	63.3	80.4
HUBBARD 87	95.0	91.7	75.0	70.0	91.7	58.3	80.3
AZTEC	95.0	91.7	68.3	68.3	90.0	68.3	80.3
TAURUS	96.3	91.7	73.3	70.0	90.0	60.0	80.2
BONANZA	95.0	94.3	66.7	66.7	93.3	65.0	80.2
PICK 127	93.0	92.7	70.0	66.7	90.0	68.3	80.1
REBEL	93.3	90.0	80.0	58.3	90.0	68.3	80.0
KWS-DUR	95.0	96.0	68.3	68.3	86.7	65.0	79.9
CIMMARON	97.7	96.0	75.0	68.3	91.7	50.0	79.8
PICK GH6	94.7	96.0	70.0	61.7	95.0	60.0	79.6
TRIBUTE	95.0	91.7	78.3	68.3	90.0	48.3	78.6
BEL 86-2	96.3	91.7	76.7	70.0	93.3	41.7	78.3
PST-5BL (SILVERADO)	88.3	95.0	63.3	63.3	88.3	70.0	78.1
PICK DM	96.3	97.0	65.0	65.0	88.3	53.3	77.5
PICK TF9	95.0	93.3	73.3	65.0	90.0	48.3	77.5
RICHMOND	93.3	94.3	75.0	68.3	91.7	41.7	77.4
ADVENTURE	94.7	94.3	70.0	68.3	90.0	46.7	77.3
PST-5DM	94.7	91.0	73.3	63.3	90.0	51.7	77.3
PICK SLD (EMPEROR)	93.3	90.0	63.3	56.7	88.3	66.7	76.4
BEL 86-1	93.3	91.7	76.7	68.3	90.0	35.0	75.8
PST-5D7 (MURIETTA)	88.3	91.7	66.7	60.0	85.0	63.3	75.8
KWS-BG-6	91.7	93.3	65.0	61.7	86.7	46.7	74.2
NORMARC 99	88.3	91.7	58.3	65.0	88.3	33.3	70.8
PICK DDF	73.3	90.0	51.7	63.3	88.3	55.0	70.3
LSD VALUE	6.8	6.7	14.2	9.1	5.7	31.9	6.3

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 13. PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/					
NAME	AZ1	MI1	MO3	OK1	MEAN
THOROUGHbred	97.7	93.3	95.0	97.7	95.9
OLYMPIC	96.3	91.7	97.7	97.7	95.8
FINELAWN I	93.3	96.0	97.7	96.3	95.8
REBEL II	97.7	91.7	97.7	96.0	95.8
WRANGLER	96.3	95.0	95.0	94.7	95.3
MESA	99.0	90.0	96.3	95.0	95.1
FALCON	93.3	94.3	97.7	94.7	95.0
NORMARC 25	96.0	.	99.0	90.0	95.0
TITAN	95.0	89.3	99.0	96.0	94.8
KY-31	97.7	90.0	95.0	96.0	94.7
PACER	96.3	92.7	97.3	91.7	94.5
PE-7E	96.3	.	94.7	91.3	94.1
TRAILBLAZER	96.3	88.3	97.7	93.3	93.9
PE-7	96.0	86.7	97.7	95.0	93.8
PST-5AP	96.0	85.0	97.7	96.3	93.8
CHIEFTAIN	95.0	86.7	97.7	95.0	93.6
JB-2	95.0	88.3	96.3	94.7	93.6
REBEL	96.0	91.7	94.7	91.7	93.5
JAGUAR	96.3	85.0	97.7	94.7	93.4
BAR FA 7851 (BARNONE)	96.3	.	99.0	84.7	93.3
FINELAWN 5GL	91.3	93.3	96.3	91.7	93.2
SUNDANCE	96.3	86.7	97.7	91.7	93.1
TRIBUTE	94.7	85.0	97.7	95.0	93.1
APACHE	91.3	86.7	97.7	96.0	92.9
PST-DBC	93.3	86.7	94.7	96.0	92.7
PST-5OL	96.3	87.7	93.3	93.3	92.7
TAURUS	95.0	91.7	90.0	93.0	92.4
TIP	91.7	91.7	93.0	93.0	92.3
PST-5EN	96.3	88.3	96.3	88.3	92.3
MONARCH	93.0	86.7	97.7	91.7	92.3
PST-5D1 (ELDORADO)	97.7	90.0	94.7	86.7	92.3
PST-5HF (AMIGO)	94.7	85.0	96.3	93.0	92.3
RICHMOND	93.0	88.3	97.7	90.0	92.3
PICK TF9	94.7	80.0	99.0	94.7	92.1
ARID	96.3	86.7	96.3	88.3	91.9
HUBBARD 87	94.7	85.0	97.7	90.0	91.8
ADVENTURE	96.0	86.0	96.3	88.3	91.7
BEL 86-2	93.3	85.0	97.7	90.0	91.5
CAREFREE	94.7	88.3	96.3	86.0	91.3
JAGUAR II	96.0	83.3	97.7	88.3	91.3

PERCENT LIVING GROUND COVER (SUMMER)
 RATINGS OF TALL FESCUE CULTIVARS
 1988 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	AZ1	MI1	MO3	OK1	MEAN
LEGEND	91.3	86.7	99.0	88.3	91.3
SYN GA	94.7	86.7	96.3	86.7	91.1
PST-5AG	91.7	83.3	96.3	93.0	91.1
PST-5DM	97.7	85.0	93.3	88.3	91.1
TRIDENT	97.7	78.3	94.7	93.3	91.0
WILLAMETTE	99.0	83.3	96.3	84.7	90.8
FATIMA	94.7	90.0	90.0	88.3	90.8
BEL 86-1	93.3	80.0	94.7	94.7	90.7
PICK GH6	96.0	81.7	97.7	86.3	90.4
PST-5MW	99.0	81.7	96.3	84.7	90.4
KWS-BG-6	97.7	.	95.0	78.3	90.3
AZTEC	97.7	81.7	97.7	83.3	90.1
NORMARC 77	91.7	76.7	97.7	94.3	90.1
PICK DM	97.7	78.3	99.0	85.0	90.0
BONANZA	96.3	83.3	96.3	83.3	89.8
PICK 127	97.7	81.7	97.7	81.7	89.7
CIMMARON	95.0	81.7	95.0	86.7	89.6
PST-5D7 (MURIETTA)	94.7	76.7	96.3	88.3	89.0
PICK 845PN	96.0	76.7	94.7	88.3	88.9
KWS-DUR	96.3	76.7	96.3	85.0	88.6
PICK SLD (EMPEROR)	97.7	81.7	96.0	75.0	87.6
PST-5F2 (WINCHESTER)	97.7	78.3	96.0	78.0	87.5
PST-5BL (SILVERADO)	97.7	76.7	93.3	81.7	87.3
NORMARC 99	93.3	76.7	95.0	68.3	83.3
PICK DDF (SHORTSTOP)	99.0	73.3	91.0	61.7	81.3
LSD VALUE	6.5	13.6	4.5	14.3	5.3

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 14. PERCENT LIVING GROUND COVER (FALL)
RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/					
NAME	AZ1	MO3	OK1	WA6	MEAN
THOROUGHBRED	99.0	94.7	72.8	81.7	87.0
PE-7E	99.0	97.7	71.8	78.3	86.7
WRANGLER	99.0	94.7	67.0	83.3	86.0
PST-5AG	99.0	97.7	69.8	76.7	85.8
TIP	97.0	94.7	64.7	85.0	85.3
TRAILBLAZER	99.0	99.0	66.5	76.7	85.3
MONARCH	97.0	99.0	66.2	78.3	85.1
NORMARC 25	99.0	99.0	68.8	73.3	85.0
CAREFREE	99.0	97.7	59.0	83.3	84.8
JAGUAR	97.0	99.0	69.7	73.3	84.8
PST-DBC	99.0	96.3	70.3	73.3	84.8
OLYMPIC	99.0	99.0	68.8	71.7	84.6
PST-5AP	99.0	99.0	67.2	73.3	84.6
PICK 127	99.0	99.0	58.3	81.7	84.5
KY-31	97.0	95.0	72.2	73.3	84.4
PST-5MW	99.0	99.0	63.2	75.0	84.0
JAGUAR II	99.0	97.7	65.7	73.3	83.9
PST-5F2 (WINCHESTER)	99.0	97.7	62.3	76.7	83.9
FALCON	92.5	99.0	69.8	73.3	83.7
MESA	96.0	96.3	69.5	71.7	83.4
PICK 845PN	99.0	97.3	65.5	71.7	83.4
LEGEND	99.0	97.7	64.0	71.7	83.1
REBEL II	97.0	99.0	66.3	70.0	83.1
JB-2	97.0	94.7	67.0	73.3	83.0
PICK TF9	99.0	99.0	63.8	68.3	82.5
SUNDANCE	97.0	95.0	64.8	73.3	82.5
FINELAWN 5GL	94.5	95.0	68.8	71.7	82.5
CHIEFTAIN	99.0	97.7	69.7	63.3	82.4
NORMARC 77	97.7	99.0	64.7	68.3	82.4
PICK GH6	99.0	96.0	64.7	70.0	82.4
BAR FA 7851 (BARNONE)	99.0	99.0	58.3	73.3	82.4
TITAN	99.0	97.7	71.2	61.7	82.4
WILLAMETTE	97.0	97.7	61.5	73.3	82.4
PACER	97.0	96.0	66.3	70.0	82.3
BONANZA	99.0	97.7	62.2	68.3	81.8
PST-5D7 (MURIETTA)	92.5	97.3	65.7	71.7	81.8
AZTEC	97.0	97.7	62.3	70.0	81.8
PE-7	96.3	99.0	66.5	65.0	81.7
PST-5EN	99.0	96.3	64.7	66.7	81.7
ADVENTURE	99.0	96.0	65.5	65.0	81.4

PERCENT LIVING GROUND COVER (FALL)
 RATINGS OF TALL FESCUE CULTIVARS
 1988 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	AZ1	MO3	OK1	WA6	MEAN
PST-50L	96.3	94.7	65.7	68.3	81.3
PST-5HF (AMIGO)	99.0	96.0	63.2	66.7	81.2
TRIBUTE	97.0	99.0	68.8	60.0	81.2
PST-5D1 (ELDORADO)	97.7	93.0	62.3	71.7	81.2
PST-5DM	99.0	97.7	60.8	66.7	81.0
BEL 86-1	99.0	94.7	70.5	58.3	80.6
FATIMA	99.0	90.0	66.5	66.7	80.5
FINELAWN I	90.0	97.7	71.2	63.3	80.5
BEL 86-2	99.0	97.7	63.3	61.7	80.4
CIMMARON	97.7	93.3	65.7	65.0	80.4
PST-5BL (SILVERADO)	94.7	97.7	60.8	68.3	80.4
TAURUS	97.7	94.7	64.0	65.0	80.3
HUBBARD 87	99.0	99.0	63.0	60.0	80.3
PICK DM	99.0	99.0	57.3	65.0	80.1
RICHMOND	99.0	96.0	66.5	58.3	80.0
ARID	94.7	97.7	64.8	61.7	79.7
REBEL	95.0	93.0	65.5	65.0	79.6
PICK DDF (SHORTSTOP)	99.0	92.7	49.2	76.7	79.4
APACHE	94.7	97.7	67.2	56.7	79.0
SYN GA	99.0	97.3	55.0	63.3	78.7
KWS-BG-6	99.0	93.3	51.7	70.0	78.5
NORMARC 99	97.0	98.7	55.0	63.3	78.5
KWS-DUR	89.7	97.7	62.2	63.3	78.2
TRIDENT	96.3	97.7	62.3	53.3	77.4
PICK SID (EMPEROR)	94.7	93.0	52.5	60.0	75.0
LSD VALUE	5.7	5.1	35.9	20.5	16.7

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 15. DROUGHT TOLERANCE RATINGS (RECOVERY)
 RATINGS OF TALL FESCUE CULTIVARS
 1988 DATA

RECOVERY FROM DROUGHT RATINGS 1-9; 9=COMPLETE RECOVERY 1/

NAME	OH2	MEAN
HUBBARD 87	6.3	6.3
NORMARC 77	6.0	6.0
ADVENTURE	5.7	5.7
CHIEFTAIN	5.7	5.7
JAGUAR II	5.7	5.7
JB-2	5.7	5.7
MONARCH	5.7	5.7
PICK 845FN	5.7	5.7
PST-5F2 (WINCHESTER)	5.7	5.7
SUNDANCE	5.7	5.7
WILLAMETTE	5.7	5.7
FALCON	5.3	5.3
KY-31	5.3	5.3
MESA	5.3	5.3
NORMARC 99	5.3	5.3
OLYMPIC	5.3	5.3
PE-7	5.3	5.3
PE-7E	5.3	5.3
PST-5MW	5.3	5.3
REBEL	5.3	5.3
TRAILBLAZER	5.3	5.3
TRIDENT	5.3	5.3
WRANGLER	5.3	5.3
AZTEC	5.0	5.0
BEL 86-1	5.0	5.0
BEL 86-2	5.0	5.0
BONANZA	5.0	5.0
CAREFREE	5.0	5.0
CIMMARON	5.0	5.0
FATIMA	5.0	5.0
FINELAWN 5GL	5.0	5.0
FINELAWN I	5.0	5.0
JAGUAR	5.0	5.0
KWS-DUR	5.0	5.0
LEGEND	5.0	5.0
NORMARC 25	5.0	5.0
PICK 127	5.0	5.0
PICK DM	5.0	5.0
PICK TF9	5.0	5.0
PST-5AG	5.0	5.0

DROUGHT TOLERANCE RATINGS (RECOVERY)
 RATINGS OF TALL FESCUE CULTIVARS
 1988 DATA

RECOVERY FROM DROUGHT RATINGS 1-9; 9=COMPLETE RECOVERY

NAME	OH2	MEAN
PST-5AP	5.0	5.0
PST-5D1 (ELDORADO)	5.0	5.0
PST-5DM	5.0	5.0
PST-5HF (AMIGO)	5.0	5.0
PST-5OL	5.0	5.0
PST-DBC	5.0	5.0
REBEL II	5.0	5.0
SYN GA	5.0	5.0
TAURUS	5.0	5.0
THOROUGHbred	5.0	5.0
TRIBUTE	5.0	5.0
APACHE	4.7	4.7
ARID	4.7	4.7
BAR FA 7851 (BARNONE)	4.7	4.7
KWS-BG-6	4.7	4.7
PACER	4.7	4.7
PICK DDF (SHORTSTOP)	4.7	4.7
PST-5D7 (MURietta)	4.7	4.7
PST-5EN	4.7	4.7
RICHMOND	4.7	4.7
TITAN	4.7	4.7
PICK GH6	4.3	4.3
PICK SLD (EMPEROR)	4.3	4.3
PST-5BL (SILVERADO)	4.3	4.3
TIP	4.3	4.3
LSD VALUE	0.9	0.9

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

TABLE 16. FUSARIUM PATCH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	OR1	MEAN
JAGUAR II	6.3	6.3
NORMARC 99	6.3	6.3
PST-5AG	6.3	6.3
PST-5HF (AMIGO)	6.3	6.3
APACHE	6.0	6.0
FINELAWN 5GL	6.0	6.0
JAGUAR	6.0	6.0
NORMARC 77	6.0	6.0
OLYMPIC	6.0	6.0
PST-5BL (SILVERADO)	6.0	6.0
PST-5DM	6.0	6.0
PST-5EN	6.0	6.0
PST-5MW	6.0	6.0
PST-5OL	6.0	6.0
SUNDANCE	6.0	6.0
BAR FA 7851 (BARNONE)	5.7	5.7
BONANZA	5.7	5.7
CHIEFTAIN	5.7	5.7
FINELAWN I	5.7	5.7
HUBBARD 87	5.7	5.7
LEGEND	5.7	5.7
MONARCH	5.7	5.7
NORMARC 25	5.7	5.7
PICK 127	5.7	5.7
PICK 845PN	5.7	5.7
PICK GH6	5.7	5.7
PST-5AP	5.7	5.7
PST-5D1 (ELDORADO)	5.7	5.7
PST-5F2 (WINCHESTER)	5.7	5.7
THOROUGHbred	5.7	5.7
TITAN	5.7	5.7
TRIBUTE	5.7	5.7
WRANGLER	5.7	5.7
ADVENTURE	5.3	5.3
ARID	5.3	5.3
BEL 86-2	5.3	5.3
KWS-DUR	5.3	5.3
PE-7	5.3	5.3
PICK TF9	5.3	5.3
REBEL II	5.3	5.3

FUSARIUM PATCH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

FUSARIUM PATCH RATINGS 1-9; 9=NO DISEASE

NAME	OR1	MEAN
RICHMOND	5.3	5.3
TRIDENT	5.3	5.3
AZTEC	5.0	5.0
BEL 86-1	5.0	5.0
CAREFREE	5.0	5.0
CIMMARON	5.0	5.0
FALCON	5.0	5.0
MESA	5.0	5.0
PACER	5.0	5.0
PE-7E	5.0	5.0
PICK DDF (SHORTSTOP)	5.0	5.0
PICK DM	5.0	5.0
PICK SLD (EMPEROR)	5.0	5.0
SYN GA	5.0	5.0
TAURUS	5.0	5.0
FATIMA	4.7	4.7
JB-2	4.7	4.7
PST-DBC	4.7	4.7
REBEL	4.7	4.7
TRAILBLAZER	4.7	4.7
WILLAMETTE	4.7	4.7
KWS-BG-6	4.0	4.0
KY-31	4.0	4.0
PST-5D7 (MURIETTA)	4.0	4.0
TIP	4.0	4.0
LSD VALUE	1.0	1.0

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

TABLE 17. LEAFSPOT RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE 1/			
NAME	NJ3	UB2	MEAN
PE-7E	6.0	5.7	5.8
BONANZA	5.7	5.3	5.5
AZTEC	4.7	6.0	5.3
BAR FA 7851 (BARNONE)	4.7	6.0	5.3
JAGUAR	4.7	6.0	5.3
PE-7	5.0	5.7	5.3
PST-5HF (AMIGO)	5.7	5.0	5.3
HUBBARD 87	5.3	5.3	5.3
NORMARC 25	5.3	5.3	5.3
TRAILBLAZER	5.7	4.7	5.2
NORMARC 99	5.0	5.3	5.2
PICK DDF (SHORTSTOP)	5.0	5.3	5.2
PST-5EN	5.3	5.0	5.2
WRANGLER	5.0	5.3	5.2
APACHE	5.0	5.0	5.0
CAREFREE	4.7	5.3	5.0
PICK 127	5.0	5.0	5.0
PICK DM	4.7	5.3	5.0
PST-5D1 (ELDORADO)	5.0	5.0	5.0
PST-5DM	6.3	3.7	5.0
PST-5F2 (WINCHESTER)	5.0	5.0	5.0
PST-5OL	4.7	5.3	5.0
PST-DBC	5.0	5.0	5.0
BEL 86-2	4.7	5.0	4.8
CHIEFTAIN	5.0	4.7	4.8
JAGUAR II	5.0	4.7	4.8
JB-2	5.0	4.7	4.8
NORMARC 77	4.7	5.0	4.8
PICK GH6	5.0	4.7	4.8
PST-5MW	5.0	4.7	4.8
TRIBUTE	5.0	4.7	4.8
PICK 845PN	4.3	5.3	4.8
PST-5AP	5.3	4.3	4.8
KWS-BG-6	4.7	4.7	4.7
OLYMPIC	5.7	3.7	4.7
RICHMOND	4.7	4.7	4.7
FINELAWN 5GL	5.3	4.0	4.7
KWS-DUR	5.0	4.3	4.7
PICK TF9	4.3	5.0	4.7
REBEL II	5.0	4.3	4.7

LEAFSPOT RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE

NAME	NJ3	UB2	MEAN
THOROUGHBRED	4.3	5.0	4.7
ADVENTURE	4.3	4.7	4.5
CIMMARON	4.7	4.3	4.5
PST-5AG	4.0	5.0	4.5
PST-5D7 (MURIETTA)	4.7	4.3	4.5
SUNDANCE	3.7	5.3	4.5
TIP	4.7	4.3	4.5
TITAN	4.3	4.7	4.5
ARID	4.0	4.7	4.3
FALCON	4.7	4.0	4.3
BEL 86-1	4.3	4.3	4.3
MESA	3.7	5.0	4.3
WILLAMETTE	4.3	4.3	4.3
MONARCH	4.0	4.3	4.2
PACER	3.7	4.3	4.0
PICK SLD (EMPEROR)	3.3	4.7	4.0
LEGEND	3.0	4.7	3.8
PST-5BL (SILVERADO)	3.7	4.0	3.8
REBEL	2.7	5.0	3.8
TAURUS	3.3	4.0	3.7
SYN GA	3.7	3.7	3.7
FINELAWN I	3.3	3.7	3.5
FATIMA	3.7	3.0	3.3
KY-31	4.0	2.7	3.3
TRIDENT	1.0	5.0	3.0
LSD VALUE	1.8	1.1	1.0

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

TABLE 18. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 1/				
NAME	NJ1	VA1	VA3	MEAN
RICHMOND	5.3	9.0	8.3	7.6
KY-31	5.3	8.0	8.0	7.1
BEL 86-1	4.7	8.7	7.7	7.0
PST-5MW	3.3	8.7	8.7	6.9
PST-DBC	3.7	8.3	8.7	6.9
PST-5F2 (WINCHESTER)	2.7	9.0	8.7	6.8
WILLAMETTE	3.7	9.0	7.7	6.8
FATIMA	4.3	8.7	7.0	6.7
TRIDENT	5.7	9.0	5.3	6.7
TRIBUTE	3.7	9.0	7.0	6.6
CIMMARON	2.0	9.0	8.3	6.4
OLYMPIC	3.3	9.0	7.0	6.4
PACER	4.0	8.7	6.7	6.4
REBEL II	4.0	8.7	6.7	6.4
FINELAWN 5GL	2.0	9.0	8.0	6.3
PICK 127	4.7	9.0	5.3	6.3
TIP	4.0	8.3	6.7	6.3
TITAN	3.3	8.7	7.0	6.3
CHIEFTAIN	2.3	8.0	8.3	6.2
PST-5EN	3.7	8.3	6.7	6.2
PST-5HF (AMIGO)	2.3	8.3	8.0	6.2
MONARCH	2.7	9.0	7.0	6.2
NORMARC 25	3.7	8.7	6.3	6.2
PICK GH6	5.0	8.7	5.0	6.2
JAGUAR	2.3	9.0	7.0	6.1
APACHE	2.7	8.7	7.0	6.1
FINELAWN I	3.0	8.0	7.3	6.1
PE-7	3.7	9.0	5.7	6.1
CAREFREE	2.0	7.7	8.3	6.0
MESA	3.7	8.7	5.7	6.0
PST-5OL	3.7	9.0	5.3	6.0
ARID	3.3	8.3	6.0	5.9
BEL 86-2	4.0	8.0	5.7	5.9
BONANZA	3.3	9.0	5.3	5.9
NORMARC 99	3.7	8.3	5.7	5.9
JB-2	2.7	8.0	7.0	5.9
WRANGLER	2.7	8.0	7.0	5.9
NORMARC 77	4.7	8.7	4.0	5.8
REBEL	2.7	8.7	6.0	5.8
ADVENTURE	2.7	7.7	6.7	5.7

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE

NAME	NJ1	VA1	VA3	MEAN
FALCON	3.7	8.3	5.0	5.7
HUBBARD 87	4.7	9.0	3.3	5.7
KWS-DUR	2.7	8.3	6.0	5.7
LEGEND	2.3	8.7	6.0	5.7
PICK DM	3.3	8.3	5.3	5.7
SUNDANCE	4.0	8.7	4.3	5.7
PST-5AP	4.0	8.0	4.7	5.6
SYN GA	3.3	8.3	5.0	5.6
THOROUGHbred	3.0	8.3	5.3	5.6
PST-5DM	3.7	8.0	5.0	5.6
PST-5BL (SILVERADO)	1.3	8.0	7.0	5.4
JAGUAR II	2.0	8.7	5.7	5.4
AZTEC	3.3	7.7	5.0	5.3
PICK DDF	2.0	8.7	5.3	5.3
PST-5D7 (MURIETTA)	1.0	7.0	8.0	5.3
PICK TF9	2.3	8.7	4.7	5.2
PST-5D1 (ELDORADO)	2.3	9.0	4.3	5.2
PICK 845PN	2.7	8.7	4.3	5.2
PICK SLD (EMPEROR)	2.0	8.3	5.0	5.1
PE-7E	3.3	8.0	3.7	5.0
BAR FA 7851 (BARNONE)	3.0	7.7	4.0	4.9
PST-5AG	1.3	8.3	4.7	4.8
TAURUS	2.3	8.3	3.0	4.6
KWS-BG-6	1.7	8.3	3.7	4.6
TRAILBLAZER	2.3	7.0	2.7	4.0
LSD VALUE	2.0	1.2	3.9	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 19. PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	NJ3	MEAN
BEL 86-1	9.0	9.0
FALCON	9.0	9.0
FINELAWN I	9.0	9.0
KY-31	9.0	9.0
LEGEND	9.0	9.0
NORMARC 25	9.0	9.0
PICK 127	9.0	9.0
SYN GA	9.0	9.0
TAURUS	9.0	9.0
TRIDENT	9.0	9.0
BAR FA 7851 (BARNONE)	8.7	8.7
CIMMARON	8.7	8.7
FATIMA	8.7	8.7
FINELAWN 5GL	8.7	8.7
OLYMPIC	8.7	8.7
PE-7	8.7	8.7
PICK 845PN	8.7	8.7
PICK SLD (EMPEROR)	8.7	8.7
PST-5BL (SILVERADO)	8.7	8.7
PST-5MW	8.7	8.7
RICHMOND	8.7	8.7
SUNDANCE	8.7	8.7
THOROUGHRED	8.7	8.7
TIP	8.7	8.7
WILLAMETTE	8.7	8.7
WRANGLER	8.7	8.7
APACHE	8.3	8.3
ARID	8.3	8.3
AZTEC	8.3	8.3
CAREFREE	8.3	8.3
JB-2	8.3	8.3
MESA	8.3	8.3
NORMARC 77	8.3	8.3
PACER	8.3	8.3
PICK DDF (SHORTSTOP)	8.3	8.3
PST-5AG	8.3	8.3
PST-5D1 (ELDORADO)	8.3	8.3
PST-5F2 (WINCHESTER)	8.3	8.3
PST-5HF (AMIGO)	8.3	8.3
PST-5OL	8.3	8.3

PYTHIUM BLIGHT RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

PYTHIUM BLIGHT RATINGS 1-9; 9=NO DISEASE

NAME	NJ3	MEAN
PST-DBC	8.3	8.3
REBEL	8.3	8.3
REBEL II	8.3	8.3
TITAN	8.3	8.3
HUBBARD 87	8.0	8.0
JAGUAR	8.0	8.0
MONARCH	8.0	8.0
PICK TF9	8.0	8.0
PST-5AP	8.0	8.0
PST-5D7 (MURIETTA)	8.0	8.0
PST-5EN	8.0	8.0
ADVENTURE	7.7	7.7
BEL 86-2	7.7	7.7
KWS-BG-6	7.7	7.7
NORMARC 99	7.7	7.7
PICK DM	7.7	7.7
TRIBUTE	7.7	7.7
BONANZA	7.3	7.3
CHIEFTAIN	7.0	7.0
JAGUAR II	7.0	7.0
PICK GH6	7.0	7.0
PST-5DM	7.0	7.0
TRAILBLAZER	7.0	7.0
KWS-DUR	6.3	6.3
PE-7E	6.3	6.3
LSD VALUE	2.1	2.1

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 20. CHINCH BUG RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	AZ1	MEAN
ADVENTURE	9.0	9.0
ARID	9.0	9.0
AZTEC	9.0	9.0
CHIEFTAIN	9.0	9.0
JAGUAR	9.0	9.0
KWS-BG-6	9.0	9.0
KY-31	9.0	9.0
MESA	9.0	9.0
PICK DDF (SHORTSTOP)	9.0	9.0
PICK DM	9.0	9.0
PST-5AP	9.0	9.0
PST-5DM	9.0	9.0
PST-5EN	9.0	9.0
PST-5OL	9.0	9.0
SUNDANCE	9.0	9.0
THOROUGHBRED	9.0	9.0
TRIDENT	9.0	9.0
WILLAMETTE	9.0	9.0
BAR FA 7851 (BARNONE)	8.7	8.7
BONANZA	8.7	8.7
KWS-DUR	8.7	8.7
OLYMPIC	8.7	8.7
PICK 127	8.7	8.7
PST-5BL (SILVERADO)	8.7	8.7
PST-5MW	8.7	8.7
PST-DBC	8.7	8.7
REBEL	8.7	8.7
REBEL II	8.7	8.7
TAURUS	8.7	8.7
TIP	8.7	8.7
TRAILBLAZER	8.7	8.7
WRANGLER	8.7	8.7
CAREFREE	8.3	8.3
FATIMA	8.3	8.3
JB-2	8.3	8.3
MONARCH	8.3	8.3
NORMARC 99	8.3	8.3
PICK SLD (EMPEROR)	8.3	8.3
PST-5D7 (MURIETTA)	8.3	8.3
PST-5F2 (WINCHESTER)	8.3	8.3

CHINCH BUG RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

CHINCH BUG RATINGS 1-9; 9=NO DAMAGE

NAME	AZ1	MEAN
RICHMOND	8.3	8.3
CIMMARON	8.0	8.0
FALCON	8.0	8.0
JAGUAR II	8.0	8.0
PE-7E	8.0	8.0
PST-5D1 (ELDORADO)	8.0	8.0
SYN GA	8.0	8.0
TITAN	8.0	8.0
BEL 86-1	7.7	7.7
HUBBARD 87	7.7	7.7
NORMARC 25	7.7	7.7
PE-7	7.7	7.7
PICK 845FN	7.7	7.7
PICK GH6	7.7	7.7
PST-5AG	7.7	7.7
PACER	7.3	7.3
PICK TF9	7.3	7.3
TRIBUTE	7.3	7.3
BEL 86-2	7.0	7.0
FINELAWN I	7.0	7.0
LEGEND	7.0	7.0
PST-5HF (AMIGO)	7.0	7.0
APACHE	6.7	6.7
FINELAWN 5GL	6.7	6.7
NORMARC 77	6.3	6.3
LSD VALUE	2.1	2.1

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 21. VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

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

NAME	WA4	MEAN
PICK DDF (SHORTSTOP)	7.7	7.7
PICK 127	7.0	7.0
BEL 86-1	6.7	6.7
HUBBARD 87	6.7	6.7
NORMARC 99	6.7	6.7
PE-7	6.7	6.7
PICK 845PN	6.7	6.7
PST-5BL (SILVERADO)	6.7	6.7
PST-DBC	6.7	6.7
AZTEC	6.3	6.3
KWS-BG-6	6.3	6.3
KWS-DUR	6.3	6.3
PICK GH6	6.3	6.3
PST-5D7 (MURietta)	6.3	6.3
PST-5DM	6.3	6.3
SUNDANCE	6.3	6.3
CHIEFTAIN	6.0	6.0
MESA	6.0	6.0
PACER	6.0	6.0
PE-7E	6.0	6.0
PICK SLD (EMPEROR)	6.0	6.0
PST-5AG	6.0	6.0
PST-5EN	6.0	6.0
PST-5HF (AMIGO)	6.0	6.0
PST-5MW	6.0	6.0
TAURUS	6.0	6.0
WRANGLER	6.0	6.0
CIMMARON	5.7	5.7
MONARCH	5.7	5.7
PICK DM	5.7	5.7
PST-5OL	5.7	5.7
BAR FA 7851 (BARNONE)	5.3	5.3
BEL 86-2	5.3	5.3
LEGEND	5.3	5.3
PICK TF9	5.3	5.3
TRIBUTE	5.3	5.3
TRIDENT	5.3	5.3
APACHE	5.0	5.0
BONANZA	5.0	5.0
FINELAWN I	5.0	5.0

VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS
1988 DATA

GROWTH RATINGS 1-9; 9=LEAST VERTICAL GROWTH

NAME	WA4	MEAN
JAGUAR	5.0	5.0
JAGUAR II	5.0	5.0
NORMARC 77	5.0	5.0
PST-5AP	5.0	5.0
THOROUGHBRED	5.0	5.0
TRAILBLAZER	5.0	5.0
ARID	4.7	4.7
FALCON	4.7	4.7
FINELAWN 5GL	4.7	4.7
OLYMPIC	4.7	4.7
PST-5D1 (ELDORADO)	4.7	4.7
PST-5F2 (WINCHESTER)	4.7	4.7
REBEL II	4.7	4.7
SYN GA	4.7	4.7
WILLAMETTE	4.7	4.7
CAREFREE	4.3	4.3
REBEL	4.3	4.3
RICHMOND	4.3	4.3
ADVENTURE	3.7	3.7
JB-2	3.7	3.7
TIP	3.7	3.7
TITAN	3.7	3.7
FATIMA	3.3	3.3
KY-31	2.3	2.3
LSD VALUE	1.5	1.5

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