

## **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 1990**

<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	Carbondale	IL2
Indiana	West Lafayette (high maintenance)	IN1
Indiana	West Lafayette (low maintenance)	IN2
Iowa	Ames	IA1
Kansas	Wichita	KS2
Maryland	Beltsville (high 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
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Rhode Island	Kingston	RI1
Texas	Dallas (high mowing)	TX1
Texas	Dallas (low mowing)	TX2
Virginia	Blacksburg	VA1
Virginia	Richmond	VA3
Virginia	Virginia Beach	VA4
Virginia	Norton	VA6
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.

1990 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	376-500	3.1-4.0	FULL SUN	3.1-3.5	TO PREVENT DORMANCY
AZ1	SANDY LOAM	-	-	-	-	FULL SUN	2.1-2.5	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	SILTY CLAY 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
GA1	SANDY CLAY LOAM	5.6-6.0	151-270	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IA1	SILT LOAM AND SILT	7.1-7.5	0-60	151-240	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
IL2	SILTY CLAY AND CLAY	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	6.6-7.0	61-150	376-500	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
IN2	SILT LOAM AND SILT	6.6-7.0	61-150	241-375	0.0-1.0	FULL SUN	3.6-4.0	NO IRRIGATION
KS2	SANDY LOAM	6.6-7.0	61-150	241-375	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MD1	SANDY LOAM	7.1-7.5	271-450	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
MI1	SANDY LOAM	7.1-7.5	61-150	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MO1	SILTY CLAY LOAM	5.6-6.0	61-150	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
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
NE1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NJ1	LOAM	6.6-7.0	61-150	376-500	1.1-2.0	FULL SUN	1.6-2.0	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 STRESS
NJ3	-	-	-	-	-	FULL SUN	1.6-2.0	NO IRRIGATION
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	SILTY CLAY LOAM	-	-	-	3.1-4.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
OR1	SILT LOAM AND SILT	5.6-6.0	151-270	241-375	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
OR2	SILTY CLAY LOAM	6.1-6.5	151-270	376-500	4.1-5.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
RI1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
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	LOAM	6.1-6.5	451+	241-375	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
UB2	LOAM	6.1-6.5	271-450	151-240	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
VA1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	3.1-4.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
VA3	SANDY LOAM	6.1-6.5	151-270	241-375	3.1-4.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
VA4	SANDY LOAM	6.1-6.5	61-150	241-375	3.1-4.0	LIGHT SHADE	2.1-2.5	TO PREVENT STRESS
VA6	SANDY CLAY	6.6-7.0	271-450	241-375	3.1-4.0	FULL SUN	2.1-2.5	NO IRRIGATION
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 1990

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR RATING	SPRING GREENUP RATING
AR1		X	X	X	X	X	X	X	X	X	X	X	X	
AZ1			X				X			X		X		
CA1	X	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						
IA1					X	X	X	X	X					
ID2	X	X	X	X									X	X
IL2			X	X	X	X	X	X	X	X				
IN1				X	X	X	X	X	X					
IN2				X	X	X	X	X	X					
KS2						X			X	X				
MD1				X		X	X	X		X				
MI1					X	X	X	X	X	X				
MO1				X			X					X		
MO3				X	X	X	X	X	X	X	X			X
NE1					X	X	X	X	X				X	
NJ1				X	X	X	X	X	X	X	X			
NJ2				X	X	X	X				X	X		
NJ3				X	X	X	X	X	X	X	X		X	X
NY1				X	X	X	X	X	X					
NY2				X	X	X	X	X	X					
OH2					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			
UB2					X	X	X			X	X			
VA1				X	X	X	X	X		X				
VA3				X	X	X	X	X	X		X		X	
VA4			X	X	X	X	X	X	X	X	X			
VA6			X	X	X	X	X	X	X	X			X	
WA4	X													

TABLE B. (continued)

## LOCATIONS AND DATA COLLECTED IN 1990

LOCATION	LEAF TEXTURE RATING	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FALL COLOR	WINTER COLOR	LEAF SPOT	DOLLAR SPOT	BROWN PATCH	PYTHIUM	APHIDS	VERTICAL GROWTH
AR1	X	X	X	X								X			
AZ1	X	X	X		X	X	X	X	X			X			
CA1		X	X	X					X						
CA2															
CA3															
GA1												X	X		
IA1															
ID2	X	X			X										
IL2															
IN1															
IN2															
KS2															
MD1															
MI1															
MO1					X	X									
MO3		X	X	X	X	X	X								
NE1															
NJ1												X			
NJ2															
NJ3	X	X	X	X								X	X		
NY1															
NY2															
OH2	X										X	X			X
OR1															
OR2															
RI1															
TX1										X				X	
TX2										X				X	
UB1												X			
UB2															
VA1															
VA3												X			
VA4															
VA6							X								
WA4	X	X			X										

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																	
	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL2	IN1	IN2	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
* HUBBARD 87	5.3	7.3	6.7	6.2	6.8	6.7	7.4	7.2	6.7	7.5	5.3	7.6	6.4	6.2	5.7	6.4	6.5	6.2
* PE-7E (SHENANDOAH)	6.8	7.1	6.5	6.2	6.8	6.7	7.9	6.1	6.9	7.2	5.5	7.7	6.9	5.2	5.3	6.2	6.5	5.9
* PICK 845PN (GUARDIAN)	6.8	7.0	6.6	6.2	6.8	7.5	6.9	5.1	6.8	7.2	5.5	6.7	7.0	5.3	5.6	6.3	6.0	6.3
* NORMARC 99 (VEGAS)	7.0	7.1	5.9	6.1	6.8	6.5	8.0	6.2	7.0	6.9	5.1	7.3	5.9	4.3	6.1	7.1	5.9	6.8
* PICK TF9 (CROSSFIRE)	6.6	7.2	6.3	6.1	6.8	7.3	7.7	6.5	6.7	7.0	5.0	7.7	6.2	5.9	5.0	6.7	5.6	6.5
* AZTEC	5.1	7.3	6.5	6.1	6.8	7.3	6.3	5.9	6.9	7.3	5.1	7.6	6.5	5.0	5.0	6.7	5.8	6.7
PE-7	5.7	6.9	6.1	6.1	6.9	7.2	7.1	6.3	6.0	7.0	5.3	8.0	6.5	6.2	5.6	6.5	6.2	5.8
* PST-5MW (SAFARI)	4.0	7.3	6.3	6.2	6.8	7.0	7.2	7.0	5.9	7.1	5.1	7.1	6.4	5.9	5.3	7.0	6.0	6.0
BEL 86-2	6.1	7.1	6.7	6.2	6.8	6.7	7.1	6.0	6.2	7.2	5.2	7.2	6.8	5.5	5.2	6.4	6.3	5.3
* PICK 127 (COCHISE)	5.9	6.9	6.1	6.0	6.6	7.2	6.9	5.8	7.1	7.0	5.3	6.8	6.1	6.1	5.2	6.6	5.5	6.3
* NORMARC 25 (AUSTIN)	4.8	7.3	6.0	6.2	6.8	7.2	7.3	6.3	.	7.1	.	7.6	6.3	5.2	5.8	6.3	6.1	5.5
* PICK DM (AVANTI)	4.3	7.1	6.0	6.2	6.8	7.2	6.7	6.2	6.6	7.1	5.1	6.8	6.2	4.9	4.9	6.8	6.3	6.4
* NORMARC 77 (PHOENIX)	4.9	6.8	6.2	6.0	6.8	6.3	7.7	6.8	6.5	7.0	5.1	7.3	6.7	5.9	6.1	6.5	6.1	4.6
PST-5AG	5.5	7.1	6.2	6.2	6.7	6.3	6.9	7.3	6.3	7.2	5.2	6.7	6.7	6.5	4.6	6.1	5.8	5.1
* PST-5BL (SILVERADO)	5.1	7.2	6.5	6.1	6.9	7.0	7.1	6.6	6.5	6.9	5.2	7.4	6.3	5.8	5.2	6.5	6.0	6.7
KWS-DUR	5.5	7.1	6.0	6.1	6.8	7.8	6.9	6.7	6.2	6.9	4.9	6.8	6.1	6.1	5.7	7.1	5.4	5.6
* TRIBUTE	5.8	7.0	5.9	6.1	6.8	7.3	7.5	5.6	6.3	7.1	5.5	6.8	6.5	5.3	5.9	6.1	6.1	5.6
* MONARCH	5.7	6.7	6.5	6.2	6.8	6.7	6.7	6.4	6.7	7.0	5.3	7.0	5.9	4.9	4.8	6.7	5.7	6.7
* PST-5HF (AMIGO)	5.6	7.0	6.4	6.1	6.7	6.5	7.1	6.1	5.5	7.1	5.3	7.7	6.3	5.6	5.4	6.3	5.8	5.8
* PST-5D1 (ELDORADO)	5.1	7.1	6.1	6.1	6.7	6.7	6.7	6.8	6.4	7.0	5.4	7.0	6.5	5.5	5.8	6.5	5.7	6.6
* PICK DDF (SHORTSTOP)	5.6	6.7	6.1	6.1	6.7	7.0	7.0	6.1	6.4	6.9	5.3	7.7	5.5	6.6	4.9	6.2	5.8	6.1
* PST-5OL (OLYMPIC II)	6.6	6.7	6.3	6.2	6.8	7.2	6.7	6.0	6.3	7.0	4.9	7.3	6.5	6.1	5.1	6.2	5.3	5.2
* THOROUGHNBRED	5.5	7.1	6.3	6.1	6.7	7.0	6.5	6.8	5.7	7.0	5.1	6.8	5.9	6.1	5.3	5.9	6.3	5.0
* CHIEFTAIN	4.9	7.0	6.1	6.2	6.8	6.5	6.6	5.8	6.4	7.0	5.1	6.8	6.7	5.8	5.6	6.6	5.8	5.2
* PST-5F2 (WINCHESTER)	5.0	6.8	6.1	6.1	6.6	7.0	6.8	5.7	6.0	7.0	5.1	7.1	6.2	6.1	5.4	6.5	5.7	5.1
* REBEL II	5.5	7.1	6.2	6.2	6.8	6.7	6.7	6.1	5.8	7.0	5.2	7.3	6.5	5.7	5.9	5.7	5.8	5.0
* WRANGLER	5.9	6.5	6.5	6.1	6.7	6.7	6.7	6.3	6.3	7.2	5.3	6.2	6.1	.	5.4	6.3	6.1	5.3
* PICK GH6 (MAVERICK II)	4.9	6.9	6.1	6.1	6.7	6.7	6.7	6.3	6.4	7.0	4.9	7.3	5.9	5.4	4.7	5.9	5.8	5.3
* TRAILBLAZER	4.4	7.0	6.2	6.2	6.7	6.2	6.7	6.1	6.3	6.8	5.1	7.0	5.9	5.4	5.4	6.8	5.4	6.0
* PST-5DM (ARRIBA)	5.5	6.8	6.7	6.2	6.8	6.8	6.7	5.8	6.3	7.0	5.2	7.2	6.3	5.4	5.2	6.4	6.2	5.2
* BONANZA	5.3	7.0	6.2	6.0	6.7	6.7	6.9	6.0	6.5	6.9	5.3	6.9	6.0	5.9	5.3	6.3	5.8	5.2
* MESA	5.8	6.9	5.9	6.0	6.7	6.7	7.7	6.6	6.2	7.0	5.2	7.7	5.7	.	5.9	6.0	5.0	4.8
PST-5EN	6.2	7.1	.	6.0	6.7	6.3	7.1	6.3	5.9	6.9	5.1	6.9	5.9	5.9	5.8	6.5	5.7	4.9
* JAGUAR II	5.2	6.9	6.3	6.1	6.8	6.8	6.7	7.0	5.9	7.1	5.0	6.9	7.0	6.6	5.2	6.0	5.4	4.7
PST-5AP	5.5	7.2	6.0	6.1	6.7	5.8	7.1	6.2	6.6	6.9	5.1	7.1	6.5	5.7	6.0	6.5	5.6	4.9
* PST-DBC (TRADITION)	6.6	7.1	5.9	6.1	6.8	6.8	6.9	6.3	5.8	6.9	5.2	7.1	5.9	5.8	4.6	6.3	5.3	4.5
* LEGEND (BRAHMA)	5.6	6.5	6.3	6.1	6.8	6.3	6.3	6.1	6.3	7.1	5.0	7.0	6.1	6.7	5.4	6.2	6.3	5.4
* OLYMPIC	5.1	6.8	5.6	6.0	6.8	6.5	6.3	5.8	5.9	7.1	4.8	7.1	6.4	6.6	5.6	5.8	5.6	4.8
* KWS-BG-6 (TWILIGHT)	6.2	7.2	6.0	6.1	6.7	6.0	6.3	6.5	.	6.6	5.1	6.7	5.5	5.8	4.8	8.0	5.9	5.6
* SUNDANCE	5.2	7.0	6.0	6.2	6.8	6.8	6.9	6.1	6.3	6.9	5.2	6.9	5.7	6.1	5.1	6.5	5.6	5.3
* BAR FA 7851 (BARNQNE)	5.2	7.1	6.2	6.2	6.8	7.8	6.7	6.3	.	6.9	5.2	7.2	5.8	5.6	5.1	6.2	6.0	4.4
JB-2	5.2	7.1	6.1	6.2	6.9	7.3	6.7	5.9	6.2	7.0	5.3	6.2	5.7	.	4.6	6.1	6.0	4.3
* APACHE	6.2	7.0	6.2	6.0	6.7	6.5	7.1	5.3	6.0	7.0	5.2	7.1	5.8	5.3	4.7	6.1	5.8	4.4
* TAURUS	5.5	7.3	6.4	6.1	6.7	6.8	6.6	6.2	6.5	7.0	5.2	7.2	6.3	5.6	4.8	5.9	5.7	5.0
* PST-5D7 (MURIETTA)	4.7	6.8	6.5	6.2	6.8	6.7	6.6	5.8	6.0	7.0	4.9	6.7	5.8	6.1	5.1	6.4	6.2	5.2

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																	
	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL2	IN1	IN2	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
* TITAN	5.3	6.6	5.8	6.1	6.7	7.0	6.8	6.6	6.4	6.8	5.1	6.8	6.2	6.1	5.7	5.8	5.3	4.5
* ARID	6.0	7.0	6.1	6.2	6.8	7.0	6.3	6.3	6.0	6.8	5.1	6.3	6.0	6.1	5.3	6.0	5.8	4.3
* PICK SLD (EMPEROR)	4.5	6.8	6.0	6.2	6.7	6.5	5.9	5.3	6.7	6.9	5.3	6.7	5.8	6.2	5.0	6.9	5.5	5.6
* REBEL	5.2	7.1	6.0	6.0	6.7	6.0	6.4	6.6	5.5	7.0	5.2	6.3	6.1	6.1	5.8	5.8	5.3	4.2
* JAGUAR	4.7	6.5	6.0	6.1	6.8	7.2	6.7	5.8	5.7	6.9	5.3	6.3	5.9	5.6	6.4	5.8	5.7	4.2
* CIMMARON	5.2	6.9	6.2	5.9	6.7	6.7	6.8	6.3	5.9	6.9	4.7	7.2	6.1	6.2	4.9	6.3	5.7	4.7
* CAREFREE	4.8	6.9	5.8	6.1	6.7	5.8	6.2	6.6	6.1	6.8	5.2	6.9	6.1	5.9	5.4	5.8	5.9	4.9
* FINELAWN 5GL	5.2	6.4	6.0	6.0	6.7	6.8	6.8	6.0	5.2	6.9	5.3	6.2	5.7	5.4	5.3	5.8	5.8	4.0
* TRIDENT	5.2	7.0	5.8	6.0	6.7	6.3	6.8	6.5	6.0	6.8	5.1	7.0	6.1	5.4	5.1	5.9	5.4	3.8
* ADVENTURE	4.9	6.8	6.2	6.1	6.8	7.3	6.2	6.1	6.5	6.8	5.2	5.9	5.9	5.2	4.3	5.8	5.7	3.5
* BEL 86-1	4.3	6.7	5.7	6.0	6.7	6.0	6.3	7.0	6.3	6.8	5.3	6.9	5.7	5.2	4.6	6.1	5.7	4.6
* WILLAMETTE	5.4	6.8	5.9	5.9	6.7	6.2	6.3	5.4	6.0	6.9	4.9	6.2	6.0	6.5	5.3	5.9	4.8	3.2
* FALCON	4.6	6.6	5.8	6.0	6.4	6.7	6.3	5.5	5.9	6.6	5.2	5.7	5.9	.	4.9	5.6	5.3	3.5
* PACER	5.5	6.5	5.5	5.9	6.6	7.0	6.6	5.8	6.0	6.6	5.1	5.6	5.7	5.8	5.4	5.8	5.2	3.6
* FINELAWN I	5.8	6.8	5.4	5.8	6.5	6.8	5.9	6.3	5.5	6.7	5.0	5.9	5.3	5.9	5.2	5.4	5.5	3.2
* RICHMOND	5.0	6.8	5.5	5.8	6.6	6.3	5.7	6.4	5.6	6.4	5.1	6.1	5.5	5.8	5.3	5.4	4.7	3.3
* FATIMA	5.5	6.6	5.3	5.9	6.5	7.0	6.0	6.6	5.7	6.3	4.9	6.1	5.7	6.1	5.3	5.5	5.7	3.0
* SYN GA (AQUARA)	5.6	6.3	5.2	6.0	6.6	6.2	6.4	6.2	5.3	6.8	4.9	5.9	5.7	6.0	4.6	5.4	4.9	3.1
* TIP	5.4	6.6	5.9	5.9	6.5	6.3	6.0	5.6	5.3	6.4	4.4	5.6	5.6	6.0	5.6	5.3	4.3	2.7
* KY-31	4.0	6.0	4.6	5.2	5.2	4.8	5.5	5.3	5.3	5.9	5.0	5.0	4.5	5.2	4.2	4.7	4.3	2.0
LSD VALUE	1.3	0.6	0.5	0.2	0.2	1.2	0.9	1.4	0.9	0.3	0.4	0.9	0.9	0.5	1.0	0.9	0.9	0.9

\* COMMERCIALY AVAILABLE IN THE UNITED STATES IN 1991

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

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																	
	NJ2	NJ3	NY1	NY2	OH2	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA3	VA4	VA6	WA4	MEAN
HUBBARD 87	7.3	6.2	5.4	6.2	7.0	6.6	5.6	6.3	3.9	4.3	7.7	6.8	6.4	6.1	6.6	4.3	6.0	6.3
PE-7E (SHENANDOAH)	7.2	5.6	5.1	5.4	7.0	6.3	5.1	6.2	3.9	4.1	7.8	6.9	6.6	6.1	6.3	4.8	5.0	6.2
PICK 845PN (GUARDIAN)	6.9	5.9	4.4	5.6	6.7	6.3	5.3	6.0	4.5	4.5	7.8	6.5	6.4	6.2	6.4	4.3	7.0	6.2
NORMARC 99 (VEGAS)	7.3	5.5	4.3	5.2	6.7	6.4	4.9	6.1	4.2	4.3	7.9	7.1	6.0	6.0	6.2	4.4	6.0	6.1
PICK TF9 (CROSSFIRE)	6.9	5.7	4.2	5.6	7.0	6.2	4.5	7.0	4.3	4.1	7.9	6.9	6.3	5.7	6.2	3.9	4.0	6.1
AZTEC	6.3	5.9	4.6	5.2	7.0	6.0	4.9	6.1	4.3	3.9	7.7	7.2	6.6	6.1	6.2	4.0	6.3	6.1
PE-7	6.4	5.3	4.5	5.3	7.0	5.9	5.0	6.3	4.3	3.5	7.9	7.1	6.4	5.6	5.7	4.3	6.3	6.1
PST-5MW (SAFARI)	6.7	5.8	5.1	5.5	7.0	6.2	4.9	6.6	4.3	4.0	7.8	6.5	6.3	6.0	5.8	3.9	6.0	6.1
BEL 86-2	5.2	5.4	4.3	4.9	6.7	5.8	5.2	6.7	4.3	4.1	7.8	7.0	6.6	6.5	6.7	4.3	6.3	6.0
PICK 127 (COCHISE)	6.7	5.4	4.6	5.6	6.7	6.1	4.9	6.3	4.7	4.3	7.9	7.0	6.1	6.2	6.1	4.0	5.7	6.0
NORMARC 25 (AUSTIN)	6.0	5.5	4.9	5.7	6.3	5.7	4.8	6.7	4.5	3.9	7.4	6.7	6.2	6.1	5.7	4.5	.	6.0
PICK DM (AVANTI)	6.9	5.4	4.7	5.4	6.3	6.7	5.3	6.4	4.1	4.4	7.8	7.0	6.2	6.2	5.9	4.3	6.0	6.0
NORMARC 77 (PHOENIX)	6.1	5.3	4.3	5.6	7.0	5.7	5.1	6.6	4.6	4.1	7.5	6.5	6.4	6.0	5.8	4.8	5.7	6.0
PST-5AG	4.9	5.5	4.8	5.4	7.0	6.6	5.3	6.8	4.1	4.6	7.3	7.0	6.3	5.5	6.1	4.0	6.0	6.0
PST-5BL (SILVERADO)	6.9	5.3	4.4	5.3	6.7	6.6	4.9	6.4	4.0	3.6	7.7	6.9	6.2	5.5	5.8	3.6	4.7	6.0
KWS-DUR	7.3	5.2	3.9	5.0	7.0	5.8	4.8	5.9	3.9	4.0	7.7	6.7	5.9	5.7	6.1	3.7	6.7	6.0
TRIBUTE	5.9	5.1	4.5	5.1	6.7	5.9	4.9	6.7	4.7	3.8	7.7	6.9	6.4	5.9	6.1	4.5	5.0	6.0
MONARCH	6.4	5.5	4.6	4.9	7.0	6.3	4.9	6.8	4.2	3.7	7.8	6.9	6.4	6.3	6.1	4.3	4.0	6.0
PST-5HF (AMIGO)	5.9	5.2	5.0	5.4	7.0	6.6	5.2	6.7	4.2	4.1	7.5	6.5	6.5	5.8	6.0	4.2	4.3	6.0
PST-5D1 (ELDORADO)	7.0	5.7	4.7	5.4	6.7	5.9	4.8	5.7	4.3	3.6	7.8	7.1	5.9	5.9	5.6	4.6	4.0	6.0
PICK DDF (SHORTSTOP)	6.6	5.4	4.6	4.8	6.7	6.0	5.2	5.5	4.0	3.7	7.7	6.8	6.2	6.1	6.1	3.9	5.3	5.9
PST-5OL (OLYMPIC II)	5.2	5.2	4.4	5.0	6.7	6.0	4.6	6.5	4.3	4.3	7.4	6.3	6.1	5.6	6.0	4.7	6.3	5.9
THOROUGHbred	5.4	5.3	4.7	5.1	7.0	5.7	4.7	6.6	3.9	3.8	7.3	6.7	6.2	5.8	5.8	4.5	6.3	5.9
CHIEFTAIN	5.6	5.4	4.8	5.7	7.0	5.9	5.0	6.9	3.7	3.5	7.5	6.6	6.0	6.0	5.9	4.5	5.3	5.9
PST-5F2 (WINCHESTER)	6.4	5.3	4.3	5.0	7.3	5.1	4.7	6.5	4.3	3.8	7.4	6.9	6.2	5.8	5.9	5.2	5.7	5.9
REBEL II	5.3	5.7	4.3	5.3	7.0	5.8	4.6	6.8	4.2	3.9	7.5	6.6	6.3	5.9	6.0	4.6	5.0	5.9
WRANGLER	5.4	5.3	5.1	5.2	7.0	6.1	5.0	6.4	4.1	3.9	7.2	6.5	6.1	5.9	5.9	4.7	4.3	5.9
PICK GH6 (MAVERICK II)	6.7	5.4	4.5	5.4	6.7	5.4	4.4	6.8	3.8	4.2	7.7	6.7	6.1	5.7	6.0	4.7	6.3	5.9
TRAILBLAZER	6.3	5.0	4.1	5.1	7.7	6.2	5.3	6.0	4.2	4.4	7.3	6.5	5.9	5.7	5.3	4.6	6.0	5.9
PST-5DM (ARRIBA)	6.1	5.0	4.4	5.4	6.7	5.8	5.2	6.7	4.0	3.6	7.5	6.2	6.4	5.5	6.0	4.2	4.0	5.8
BONANZA	5.7	4.9	4.7	4.8	7.0	5.7	4.4	6.2	3.7	4.1	7.6	6.6	5.9	5.7	6.0	4.7	5.0	5.8
MESA	5.5	4.5	4.4	5.0	7.0	5.6	4.7	5.5	3.8	4.1	7.2	6.7	6.2	5.7	5.8	4.6	5.0	5.8
PST-5EN	4.8	5.0	4.4	4.9	7.0	5.3	5.1	5.6	4.0	3.6	7.3	6.5	6.2	5.7	5.6	5.1	5.3	5.8
JAGUAR II	4.8	4.8	4.2	5.2	6.7	5.7	5.1	6.2	4.3	3.8	7.2	6.6	6.3	5.4	5.5	4.3	4.3	5.8
PST-5AP	5.4	4.6	4.3	4.7	6.7	5.3	4.7	6.3	4.2	3.9	7.2	6.5	5.9	5.5	5.7	4.4	5.3	5.8
PST-DBC (TRADITION)	5.0	5.1	4.3	5.2	6.7	5.2	5.1	6.0	4.1	3.8	7.1	6.1	5.9	5.6	6.0	4.2	6.0	5.7
LEGEND (BRAHMA)	5.3	4.9	4.5	5.6	6.7	5.6	4.4	5.5	4.1	3.9	6.9	6.4	5.8	5.7	4.8	4.0	5.0	5.7
OLYMPIC	4.4	4.7	4.7	4.9	7.0	5.4	4.5	6.7	4.1	3.8	7.1	6.1	5.7	6.1	5.5	4.5	6.7	5.7
KWS-BG-6 (TWILIGHT)	5.8	5.2	3.1	4.7	6.7	5.2	4.4	6.1	4.5	3.6	7.4	6.6	5.7	5.5	5.5	4.0	5.3	5.7
SUNDANCE	5.4	5.0	4.0	4.8	6.7	5.1	4.4	5.8	3.9	3.7	7.1	6.5	5.7	6.1	5.7	4.2	5.3	5.7
BAR FA 7851 (BARNQNE)	5.0	4.7	4.0	4.9	7.0	5.6	4.7	5.6	3.8	3.9	7.3	6.2	5.9	5.4	5.7	4.3	5.3	5.7
JB-2	5.2	4.8	5.2	5.3	6.7	5.8	4.7	6.3	4.0	3.9	6.9	5.5	6.1	5.8	5.3	4.9	4.3	5.7
APACHE	4.8	4.8	4.3	5.1	6.7	5.2	4.7	6.2	3.9	3.6	7.1	6.6	6.1	5.4	5.4	4.9	6.0	5.7
TAURUS	4.5	5.3	4.2	4.7	6.7	5.1	4.7	5.2	4.2	3.8	7.4	6.1	5.7	5.2	5.4	4.9	5.0	5.7
PST-5D7 (MURIETTA)	5.3	5.0	3.9	4.8	7.0	5.5	4.9	5.8	3.8	3.3	7.4	6.3	5.4	5.4	5.8	4.3	5.0	5.7

TABLE 1. (continued)

MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS  
AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF																	
	NJ2	NJ3	NY1	NY2	OH2	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA3	VA4	VA6	WA4	MEAN
TITAN	4.9	4.6	4.4	4.9	6.3	4.8	4.6	5.7	3.3	4.1	7.0	6.2	5.8	6.0	5.7	5.1	5.0	5.7
ARID	4.3	4.5	4.3	5.1	6.3	5.3	4.7	6.0	3.9	3.7	6.7	6.1	5.7	5.4	5.7	4.8	6.0	5.7
PICK SLD (EMPEROR)	5.7	5.0	3.9	4.6	7.0	5.4	4.6	5.7	3.9	3.7	7.1	6.7	5.9	5.4	5.7	3.4	5.0	5.6
REBEL	4.2	4.6	5.2	5.3	6.0	4.8	4.8	6.3	3.7	3.6	7.1	6.1	6.0	5.7	5.6	4.5	5.3	5.6
JAGUAR	4.1	4.8	4.4	4.8	6.3	5.3	4.9	6.8	4.3	4.2	7.0	5.9	5.9	5.6	5.6	3.9	5.0	5.6
CIMMARON	5.1	4.5	4.1	4.7	6.7	5.4	4.1	5.5	4.3	4.1	7.5	6.7	5.7	5.8	5.1	4.0	3.7	5.6
CAREFREE	5.1	4.5	3.4	4.3	6.3	5.0	4.9	5.7	3.5	3.6	7.1	6.6	5.3	5.5	5.2	4.7	7.0	5.6
FINELAWN 5GL	4.6	4.5	4.7	4.9	6.7	5.4	4.7	5.6	3.9	3.4	7.1	6.2	5.8	5.4	5.5	5.0	6.3	5.6
TRIDENT	5.2	3.6	4.1	4.6	6.0	5.4	5.0	5.0	3.9	3.5	7.3	6.1	5.6	5.3	5.3	4.7	5.0	5.5
ADVENTURE	3.7	4.3	4.2	5.2	6.7	5.4	4.7	5.6	3.8	3.5	6.8	5.7	5.5	5.8	5.2	4.3	4.7	5.4
BEL 86-1	4.5	4.8	3.7	4.3	7.0	4.7	4.5	5.5	3.4	3.9	7.0	6.2	5.7	5.1	5.4	3.8	4.3	5.4
WILLAMETTE	3.7	3.5	4.3	4.4	6.7	4.6	4.0	5.0	3.7	3.5	6.5	5.7	5.4	5.2	4.8	4.6	6.0	5.3
FALCON	3.4	4.3	4.4	4.9	6.7	4.7	4.3	5.7	3.6	4.2	6.6	5.6	5.8	5.4	5.1	4.6	4.7	5.3
PACER	3.1	4.1	3.8	4.3	6.3	4.2	4.3	4.8	3.9	3.7	6.7	5.7	5.2	5.1	5.3	5.0	5.7	5.3
FINELAWN I	3.8	4.0	3.8	4.2	6.7	4.4	4.3	5.8	3.7	3.5	6.5	5.6	5.1	5.0	5.2	5.0	4.3	5.3
RICHMOND	3.4	3.8	3.6	4.3	6.3	4.5	4.4	5.0	3.6	4.0	6.5	5.5	5.3	5.0	5.1	4.2	5.7	5.2
FATIMA	2.9	3.4	3.8	4.6	6.0	4.3	4.2	4.5	3.4	3.4	6.5	5.4	5.6	5.1	5.0	4.3	5.3	5.2
SYN GA (AQUARA)	3.3	3.6	4.0	4.4	6.3	4.6	4.0	4.2	3.8	3.6	6.1	5.8	5.4	5.0	5.0	4.3	4.7	5.1
TIP	3.0	3.5	3.4	3.9	6.0	4.9	4.6	4.9	3.7	3.9	6.4	5.7	5.1	5.3	4.9	4.3	5.0	5.1
KY-31	1.7	2.9	3.3	3.9	6.0	3.3	4.3	3.9	3.6	2.9	5.1	4.4	4.8	4.6	4.2	4.3	5.0	4.4
LSD VALUE	1.1	0.6	0.9	0.7	0.8	0.6	0.7	1.2	0.8	0.8	0.4	0.6	0.5	0.6	0.4	1.0	2.0	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-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
HUBBARD 87	5.3	4.9	5.7	6.0	6.2	6.3	6.2	6.1	6.0	6.5	6.7	6.3	6.3
FE-7E (SHENANDOAH)	4.8	4.7	5.7	6.0	6.3	6.1	6.1	5.9	6.0	6.7	6.7	6.3	6.2
PICK 845PN (GUARDIAN)	4.9	4.7	6.0	6.0	6.4	6.1	6.2	5.8	5.7	6.6	6.6	5.8	6.2
NORMARC 99 (VEGAS)	4.9	4.7	5.9	6.0	6.3	6.3	6.0	5.6	5.8	6.4	6.4	6.2	6.1
PICK TF9 (CROSSFIRE)	4.5	4.5	5.6	5.9	6.2	6.2	6.1	5.7	5.8	6.6	6.6	6.0	6.1
AZTEC	5.0	4.3	5.4	5.9	6.1	6.0	6.0	5.7	5.8	6.4	6.5	5.8	6.1
FE-7	4.7	4.3	5.4	5.8	6.1	6.1	5.9	5.8	5.8	6.3	6.2	5.8	6.1
EST-5MW (SAFARI)	5.1	4.3	5.4	5.7	6.0	5.8	5.9	5.9	5.8	6.3	6.5	6.0	6.1
EEL 86-2	5.0	4.6	5.7	5.9	6.0	5.9	5.8	5.9	5.9	6.4	6.4	5.7	6.0
PICK 127 (COCHISE)	4.5	4.5	6.0	6.0	6.1	6.1	6.0	5.7	5.8	6.3	6.4	5.8	6.0
NORMARC 25 (AUSTIN)	4.5	4.4	5.5	5.7	6.0	6.1	5.9	5.7	5.7	6.2	6.2	5.7	6.0
NORMARC 77 (PHOENIX)	4.9	4.4	5.6	5.9	5.9	6.0	6.0	5.7	5.8	6.1	6.1	5.7	6.0
PICK DM (AVANTI)	5.0	4.3	5.5	5.8	6.1	6.0	5.9	5.6	5.7	6.5	6.6	5.9	6.0
EST-5AG	5.4	4.6	5.7	5.8	6.0	5.9	5.8	5.6	5.7	6.4	6.5	5.7	6.0
EST-5BL (SILVERADO)	4.7	4.5	5.3	5.6	6.0	6.0	6.0	5.7	5.8	6.2	6.4	6.2	6.0
KWS-DUR	5.1	4.3	5.5	5.7	6.0	5.9	5.6	5.6	5.6	6.2	6.4	6.1	6.0
TRIBUTE	4.6	4.7	5.4	5.6	6.0	5.8	5.9	5.9	5.8	6.3	6.3	5.9	6.0
MONARCH	4.8	4.6	5.5	5.8	6.1	6.0	5.9	5.7	5.9	6.2	6.5	5.9	6.0
EST-5HF (AMIGO)	4.8	4.7	5.4	5.8	6.0	5.9	5.9	5.6	5.7	6.4	6.4	6.0	6.0
EST-5D1 (ELDORADO)	4.6	4.2	5.5	5.9	6.1	6.0	6.0	5.6	5.7	6.2	6.2	5.8	6.0
PICK DDF (SHORTSTOP)	4.6	4.3	5.5	5.8	6.1	5.9	5.6	5.5	5.7	6.3	6.3	5.8	5.9
EST-5OL (OLYMPIC II)	5.0	4.5	5.6	5.7	5.8	5.8	5.9	5.7	5.7	6.3	6.2	5.8	5.9
THOROUGHBRED	5.0	4.5	5.5	5.5	5.8	5.8	5.8	5.6	5.5	6.1	6.2	5.9	5.9
CHIEFTAIN	4.6	4.2	5.2	5.6	5.8	5.9	5.9	5.7	5.7	6.2	6.2	5.6	5.9
EST-5F2 (WINCHESTER)	4.6	4.3	5.3	5.8	5.8	5.8	5.7	5.7	5.7	6.3	6.0	5.6	5.9
REBEL II	4.7	4.3	5.4	5.5	5.8	5.8	6.0	5.7	5.6	6.1	6.2	5.9	5.9
WRANGLER	4.6	4.4	5.5	5.8	6.0	5.8	5.7	5.6	5.6	6.3	6.4	6.0	5.9
PICK GH6 (MAVERICK II)	4.9	4.0	5.2	5.5	5.9	6.0	5.8	5.5	5.7	6.0	6.2	5.7	5.9
TRAILBLAZER	4.8	4.2	5.3	5.6	6.0	5.9	5.7	5.4	5.6	6.3	6.3	5.8	5.9
EST-5DM (ARRIBA)	4.5	4.5	5.3	5.7	5.9	5.8	5.7	5.6	5.6	6.1	6.1	5.7	5.8
BONANZA	4.7	4.3	5.3	5.8	6.0	5.8	5.6	5.4	5.5	6.1	6.0	5.7	5.8
MESA	4.7	4.7	5.3	5.5	5.7	5.6	5.8	5.6	5.6	6.0	5.8	5.8	5.8
EST-5EN	4.7	4.3	5.3	5.4	5.6	5.6	5.7	5.6	5.7	6.2	6.0	5.9	5.8
JAGUAR II	4.8	4.6	5.5	5.6	5.6	5.7	5.7	5.6	5.5	6.0	6.1	5.8	5.8
EST-5AP	4.7	4.3	5.5	5.5	5.7	5.6	5.8	5.5	5.6	6.0	6.0	5.6	5.8
EST-DBC (TRADITION)	4.9	4.8	5.4	5.4	5.6	5.5	5.7	5.6	5.6	6.1	6.2	5.7	5.7
LEGEND (BRAHMA)	4.6	4.5	5.4	5.6	5.7	5.5	5.5	5.5	5.4	6.0	6.3	6.0	5.7
OLYMPIC	4.8	4.2	5.4	5.5	5.6	5.6	5.8	5.4	5.3	5.8	5.8	5.5	5.7
KWS-BG-6 (TWILIGHT)	4.6	4.0	5.2	5.7	5.9	5.9	5.4	5.2	5.4	6.2	6.2	6.1	5.7
SUNDANCE	4.6	4.1	5.2	5.5	5.6	5.6	5.6	5.5	5.5	6.0	5.9	5.5	5.7
BAR FA 7851 (BARNONE)	4.8	4.3	5.1	5.3	5.6	5.6	5.6	5.5	5.4	5.8	6.0	5.7	5.7
JB-2	4.5	4.4	5.4	5.6	5.7	5.6	5.6	5.6	5.4	5.9	6.1	5.9	5.7
APACHE	4.7	4.4	5.2	5.5	5.5	5.5	5.6	5.4	5.6	6.0	5.9	5.6	5.7
TAURUS	4.7	4.1	5.7	5.4	5.6	5.5	5.5	5.3	5.5	6.2	6.1	5.5	5.7
EST-5D7 (MURIETTA)	4.6	4.0	5.2	5.3	5.8	5.6	5.5	5.3	5.6	6.0	6.0	5.5	5.7

TABLE 2. (continued) MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS FOR EACH MONTH GROWN AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES 1990 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TITAN	4.7	4.1	5.4	5.5	5.6	5.6	5.6	5.5	5.4	5.7	5.7	5.4	5.7
ARID	4.9	4.8	5.3	5.4	5.4	5.5	5.6	5.6	5.4	5.9	5.9	5.3	5.7
PICK SLD (EMPEROR)	4.5	4.0	5.2	5.5	5.7	5.6	5.3	5.4	5.4	6.0	6.1	5.7	5.6
JAGUAR	4.9	4.6	5.0	5.3	5.6	5.5	5.6	5.6	5.3	5.8	5.8	5.6	5.6
CIMMARON	4.5	4.4	5.2	5.4	5.5	5.6	5.5	5.6	5.4	5.8	5.9	5.5	5.6
REBEL	4.8	4.6	5.0	5.3	5.4	5.4	5.5	5.5	5.5	5.8	5.8	5.6	5.6
CAREFREE	5.0	4.0	5.3	5.4	5.5	5.5	5.4	5.2	5.2	5.6	5.7	5.5	5.6
FINELAWN 5GL	4.8	4.6	5.2	5.4	5.5	5.5	5.3	5.3	5.3	5.6	5.5	5.5	5.6
TRIDENT	4.8	4.3	5.2	5.1	5.3	5.4	5.4	5.3	5.3	5.6	5.7	5.9	5.5
ADVENTURE	4.8	4.4	5.6	5.3	5.3	5.3	5.2	5.3	5.2	5.4	5.5	5.3	5.4
BEL 86-1	4.5	4.2	5.0	5.3	5.4	5.3	5.3	5.1	5.2	5.6	5.5	5.1	5.4
WILLAMETTE	4.5	4.2	5.1	4.9	5.0	5.1	5.2	5.2	5.2	5.6	5.4	5.3	5.3
FALCON	4.7	4.0	5.1	5.1	5.2	5.1	5.2	5.2	5.1	5.5	5.3	5.2	5.3
PACER	4.6	4.4	5.2	5.0	5.1	5.1	5.2	5.1	5.0	5.5	5.3	5.0	5.3
FINELAWN I	4.5	4.2	4.9	5.1	5.1	5.2	5.1	5.0	5.0	5.4	5.3	5.2	5.2
RICHMOND	4.6	4.3	5.2	4.9	5.1	4.9	5.0	4.9	4.9	5.4	5.2	5.3	5.2
FATIMA	4.5	4.1	5.1	5.0	5.0	5.0	5.0	5.0	4.8	5.2	5.0	4.8	5.2
SYN GA (AQUARA)	4.5	4.4	5.2	4.9	5.0	5.1	4.9	4.9	5.0	5.3	5.0	4.9	5.1
TIP	4.4	4.1	5.1	4.9	4.8	5.0	4.9	4.9	4.9	5.4	5.4	5.5	5.1
KY-31	3.9	4.0	4.4	4.3	4.3	4.5	4.4	4.3	4.2	4.3	4.0	3.7	4.4
LSD VALUE	0.9	1.0	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	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-FIVE LOCATIONS IN THE UNITED STATES 1/  
1990 DATA

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

NAME	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL2	IN1	IN2	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
HUBBARD 87	35.0	2.0	1.5	8.0	27.0	37.0	7.0	2.0	8.0	1.0	14.5	7.0	16.5	8.0	13.0	22.0	1.5	10.0
PE-7E (SHENANDOAH)	2.0	19.0	9.0	3.0	6.0	37.0	2.0	39.5	3.5	6.5	2.0	4.0	3.0	54.0	31.0	33.5	1.5	14.0
PICK 845PN (GUARDIAN)	3.0	28.0	4.0	8.0	6.0	3.0	20.0	65.0	5.0	3.5	2.0	47.0	1.5	50.5	16.5	30.0	16.0	9.0
NORMARC 99 (VEGAS)	1.0	11.0	48.5	26.5	27.0	46.5	1.0	33.0	2.0	39.0	34.0	13.0	43.5	61.0	2.5	2.0	20.0	1.0
PICK TF9 (CROSSFIRE)	5.0	7.5	17.0	22.0	15.5	6.0	4.0	17.0	6.0	25.0	52.0	4.0	24.5	26.0	48.0	8.5	44.5	6.0
AZTEC	45.0	1.0	6.5	31.0	6.0	6.0	52.5	48.5	3.5	2.0	38.5	8.5	13.5	58.0	48.0	10.0	24.0	2.5
PE-7	18.0	37.0	29.0	26.5	2.0	11.5	14.5	28.0	40.0	25.0	8.0	1.0	10.0	9.5	16.5	18.0	8.0	15.5
PST-5MW (SAFARI)	65.0	4.0	14.0	16.0	11.0	19.0	9.0	4.0	45.0	13.0	44.0	24.0	16.5	26.0	31.0	4.0	16.0	12.0
BEL 86-2	10.0	19.0	3.0	16.0	6.0	37.0	11.5	45.5	33.0	6.5	20.0	18.0	4.0	43.5	38.5	22.0	5.5	23.0
PICK 127 (COCHISE)	12.0	37.0	34.0	46.0	60.0	11.5	23.5	51.0	1.0	25.0	8.0	42.0	32.0	20.5	38.5	12.0	48.0	8.0
NORMARC 25 (AUSTIN)	55.0	4.0	39.5	8.0	27.0	11.5	8.0	23.0	.	8.5	.	8.5	18.0	54.0	9.5	26.0	11.5	21.0
PICK DM (AVANTI)	63.0	11.0	39.5	1.0	15.5	11.5	39.0	33.0	10.5	13.0	38.5	42.0	24.5	59.5	51.0	6.5	5.5	7.0
NORMARC 77 (PHOENIX)	51.5	47.5	24.0	46.0	15.5	53.0	4.0	6.5	13.5	25.0	44.0	13.0	6.0	29.5	2.5	18.0	11.5	44.5
PST-5AG	26.5	19.0	24.0	8.0	48.5	53.0	20.0	1.0	22.0	5.0	20.0	47.0	7.0	5.5	60.5	38.0	24.0	32.5
PST-5BL (SILVERADO)	47.0	7.5	9.0	39.0	2.0	19.0	14.5	12.5	13.5	39.0	23.5	10.0	20.5	35.5	38.5	13.5	16.0	2.5
KWS-DUR	24.0	19.0	37.0	21.0	15.5	1.5	20.0	9.0	33.0	39.0	58.0	42.0	29.0	14.5	13.0	3.0	51.5	17.5
TRIBUTE	15.5	33.0	48.5	35.0	27.0	6.0	6.0	58.5	25.5	13.0	2.0	38.5	10.0	52.0	6.0	38.0	11.5	17.5
MONARCH	17.0	52.5	5.0	3.0	27.0	37.0	39.0	19.5	8.0	25.0	14.5	29.0	43.5	59.5	55.5	8.5	37.5	4.0
PST-5HF (AMIGO)	21.0	28.0	12.0	35.0	41.0	46.5	14.5	39.5	57.0	13.0	8.0	4.0	20.5	40.0	24.0	30.0	29.5	15.5
PST-5D1 (ELDORADO)	46.0	19.0	34.0	26.5	36.0	37.0	30.0	8.0	20.0	25.0	4.0	29.0	13.5	43.5	9.5	15.0	37.5	5.0
PICK DDF (SHORTSTOP)	20.0	52.5	29.0	26.5	52.5	19.0	17.0	39.5	17.5	48.0	8.0	4.0	61.5	3.5	51.0	33.5	29.5	11.0
PST-5OL (OLYMPIC II)	4.0	52.5	14.0	8.0	15.5	11.5	39.0	45.5	25.5	25.0	61.0	13.0	10.0	20.5	45.5	33.5	58.0	30.5
THOROUGHbred	24.0	19.0	17.0	35.0	36.0	19.0	47.0	6.5	53.5	25.0	47.0	38.5	38.5	14.5	31.0	47.0	3.5	35.5
CHIEFTAIN	51.5	28.0	29.0	16.0	6.0	46.5	43.0	54.5	20.0	25.0	44.0	42.0	5.0	32.5	16.5	11.0	24.0	28.0
PST-5F2 (WINCHESTER)	49.0	42.5	34.0	42.0	56.0	19.0	27.0	57.0	37.0	25.0	34.0	24.0	24.5	18.5	24.0	18.0	37.5	32.5
REBEL II	30.5	19.0	24.0	8.0	9.0	37.0	33.0	39.5	50.5	25.0	28.5	13.0	10.0	37.0	6.0	58.0	29.5	35.5
WRANGLER	13.0	59.0	9.0	42.0	44.5	37.0	33.0	28.0	25.5	3.5	8.0	56.0	29.0	.	24.0	26.0	11.5	25.5
PICK GH6 (MAVERICK II)	53.5	37.0	34.0	35.0	36.0	37.0	33.0	28.0	20.0	25.0	58.0	13.0	43.5	48.0	57.5	47.0	29.5	24.0
TRAILBLAZER	61.0	28.0	20.0	16.0	36.0	58.0	33.0	39.5	25.5	52.5	38.5	29.0	43.5	46.0	20.5	6.5	51.5	13.0
PST-5DM (ARRIBA)	26.5	47.5	1.5	16.0	27.0	27.0	39.0	51.0	29.5	25.0	28.5	18.0	20.5	48.0	38.5	24.0	8.0	30.5
BONANZA	36.0	28.0	20.0	55.0	52.5	37.0	20.0	45.5	13.5	39.0	14.5	33.5	36.0	24.0	31.0	28.0	24.0	28.0
MESA	14.0	37.0	48.5	50.5	52.5	37.0	4.0	12.5	33.0	25.0	20.0	4.0	54.0	.	6.0	42.0	60.0	41.0
PST-5EN	9.0	19.0	.	55.0	48.5	53.0	11.5	23.0	48.0	48.0	38.5	33.5	40.0	28.0	9.5	18.0	37.5	39.0
JAGUAR II	39.0	37.0	14.0	26.5	27.0	27.0	39.0	4.0	48.0	8.5	52.0	33.5	1.5	3.5	38.5	43.5	51.5	42.0
PST-5AP	28.0	7.5	45.0	35.0	44.5	63.5	10.0	33.0	10.5	39.0	38.5	24.0	10.0	38.0	4.0	13.5	44.5	37.5
PST-DBC (TRADITION)	6.0	19.0	48.5	42.0	27.0	27.0	20.0	23.0	50.5	39.0	28.5	21.0	43.5	35.5	60.5	30.0	55.5	46.5
LEGEND (BRAHMA)	19.0	61.0	17.0	35.0	20.5	53.0	52.5	39.5	25.5	10.0	52.0	29.0	29.0	1.0	20.5	33.5	3.5	22.0
OLYMPIC	48.0	42.5	58.0	50.5	20.5	46.5	52.5	51.0	45.0	13.0	62.0	24.0	15.0	2.0	16.5	56.0	44.5	40.0
KWS-BG-6 (TWILIGHT)	7.0	7.5	42.5	42.0	36.0	61.0	52.5	17.0	.	59.0	48.5	47.0	63.0	32.5	54.0	1.0	20.0	19.5
SUNDANCE	42.0	28.0	45.0	16.0	11.0	27.0	23.5	39.5	29.5	48.0	28.5	36.5	57.5	14.5	43.0	18.0	44.5	25.5
BAR FA 7851 (BARNONE)	41.0	13.5	24.0	16.0	20.5	1.5	39.0	28.0	.	39.0	20.0	18.0	48.0	42.0	43.0	36.0	16.0	49.0
JB-2	43.0	13.5	31.0	16.0	2.0	6.0	33.0	48.5	31.0	25.0	14.5	54.0	52.0	.	60.5	38.0	16.0	51.0
APACHE	8.0	28.0	24.0	55.0	52.5	46.5	14.5	63.5	42.5	25.0	28.5	24.0	50.0	50.5	57.5	40.5	29.5	48.0
TAURUS	29.0	4.0	11.0	35.0	36.0	27.0	45.0	33.0	16.0	25.0	23.5	18.0	20.5	40.0	55.5	47.0	37.5	34.0
PST-5D7 (MURIETTA)	58.0	47.5	6.5	3.0	20.5	37.0	45.0	54.5	40.0	25.0	58.0	47.0	50.0	11.0	45.5	22.0	8.0	28.0

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE  
CULTIVARS AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	AR1	AZ1	CA1	CA2	CA3	GA1	IA1	ID2	IL2	IN1	IN2	KS2	MD1	MI1	MO1	MO3	NE1	NJ1
TITAN	34.0	56.0	54.5	42.0	36.0	19.0	27.0	12.5	17.5	52.5	38.5	42.0	24.5	14.5	13.0	50.0	55.5	46.5
ARID	11.0	28.0	34.0	8.0	27.0	19.0	56.5	23.0	40.0	56.5	34.0	51.0	36.0	14.5	31.0	43.5	24.0	50.0
PICK SLD (EMPEROR)	60.0	47.5	45.0	16.0	36.0	46.5	62.5	62.0	8.0	45.0	8.0	47.0	50.0	9.5	48.0	5.0	48.0	19.5
REBEL	39.0	11.0	39.5	46.0	52.5	61.0	48.5	12.5	57.0	25.0	28.5	51.0	29.0	18.5	9.5	52.5	55.5	52.0
JAGUAR	57.0	61.0	42.5	26.5	11.0	11.5	39.0	54.5	52.0	39.0	14.5	51.0	43.5	40.0	1.0	52.5	37.5	53.0
CIMMARON	44.0	37.0	27.0	59.5	36.0	37.0	27.0	28.0	45.0	45.0	63.0	18.0	29.0	7.0	51.0	26.0	37.5	43.0
CAREFREE	56.0	37.0	54.5	26.5	44.5	63.5	58.5	12.5	35.0	52.5	28.5	33.5	33.5	26.0	24.0	52.5	20.0	37.5
FINELAWN 5GL	37.0	63.0	39.5	50.5	52.5	27.0	27.0	45.5	62.0	39.0	14.5	54.0	57.5	45.0	31.0	56.0	29.5	54.0
TRIDENT	39.0	28.0	54.5	48.0	44.5	53.0	27.0	17.0	37.0	52.5	48.5	29.0	33.5	48.0	43.0	47.0	51.5	55.0
ADVENTURE	53.5	47.5	20.0	26.5	15.5	6.0	58.5	39.5	13.5	52.5	20.0	59.0	47.0	56.5	64.0	52.5	37.5	58.0
BEL 86-1	62.0	52.5	57.0	50.5	44.5	61.0	56.5	4.0	25.5	52.5	8.0	36.5	54.0	56.5	63.0	40.5	37.5	44.5
WILLAMETTE	33.0	42.5	51.5	58.0	44.5	58.0	52.5	61.0	37.0	45.0	55.0	54.0	36.0	5.5	31.0	47.0	62.0	60.0
FALCON	59.0	56.0	54.5	55.0	64.0	37.0	52.5	60.0	48.0	60.0	28.5	62.0	38.5	.	53.0	59.0	55.5	57.0
PACER	24.0	61.0	60.0	62.0	58.0	19.0	45.0	54.5	42.5	61.0	44.0	63.5	54.0	32.5	24.0	56.0	59.0	56.0
FINELAWN I	15.5	47.5	61.0	64.0	62.5	27.0	62.5	23.0	57.0	58.0	52.0	60.5	64.0	29.5	38.5	62.0	48.0	61.0
RICHMOND	50.0	42.5	59.0	63.0	58.0	53.0	64.0	19.5	55.0	62.5	44.0	57.5	61.5	32.5	31.0	62.0	63.0	59.0
FATIMA	30.5	56.0	62.0	61.0	62.5	19.0	60.5	12.5	53.5	64.0	58.0	57.5	57.5	14.5	31.0	60.0	37.5	63.0
SYN GA (AQUARA)	22.0	64.0	63.0	55.0	58.0	58.0	48.5	33.0	59.5	56.5	58.0	60.5	57.5	22.5	60.5	62.0	61.0	62.0
TIP	32.0	58.0	51.5	59.5	61.0	53.0	60.5	58.5	61.0	62.5	64.0	63.5	60.0	22.5	19.0	64.0	64.5	64.0
KY-31	64.0	65.0	64.0	65.0	65.0	65.0	65.0	63.5	59.5	65.0	52.0	65.0	65.0	54.0	65.0	65.0	64.5	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-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NJ2	NJ3	NY1	NY2	OH2	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA3	VA4	VA6	WA4	MEAN
HUBBARD 87	1.0	1.0	1.0	1.0	14.0	4.0	1.0	26.5	40.0	6.5	17.0	15.5	9.5	11.0	2.0	39.0	16.5	1
PE-7E (SHENANDOAH)	4.0	8.0	5.0	14.5	14.0	8.0	11.0	30.5	45.0	18.5	8.0	10.0	1.5	11.0	4.0	10.5	42.5	2
PICK 845PN (GUARDIAN)	6.0	2.5	28.0	5.0	38.5	7.0	2.0	37.0	4.0	2.0	8.0	33.0	9.5	3.5	3.0	44.5	1.5	3
NORMARC 99 (VEGAS)	2.5	9.0	38.0	26.0	38.5	6.0	23.5	33.5	23.0	8.0	3.0	2.5	32.0	13.0	5.5	31.0	16.5	4
PICK TF9 (CROSSFIRE)	8.0	6.0	46.5	5.0	14.0	10.0	50.0	1.0	12.5	14.5	1.0	12.5	13.0	33.5	7.0	60.0	61.5	5
AZTEC	17.5	2.5	19.5	22.5	14.0	15.5	20.0	32.0	9.5	32.0	13.5	1.0	3.0	7.5	5.5	55.0	8.0	6
PE-7	14.5	20.0	22.5	17.0	14.0	18.5	17.0	23.5	12.5	57.5	3.0	2.5	7.5	38.0	32.0	34.0	8.0	7
PST-5MW (SAFARI)	12.0	4.0	4.0	9.0	14.0	11.0	23.5	14.5	12.5	23.0	8.0	33.0	15.5	17.0	27.0	58.0	16.5	8
BEL 86-2	36.5	17.0	38.0	39.5	38.5	25.0	8.0	8.0	9.5	18.5	8.0	6.5	1.5	1.0	1.0	39.0	8.0	9
PICK 127 (COCHISE)	10.5	14.0	17.5	7.5	38.5	14.0	23.5	23.5	1.5	6.5	3.0	6.5	30.0	3.5	10.0	56.5	24.0	10
NORMARC 25 (AUSTIN)	21.0	10.5	8.0	2.5	56.0	31.0	29.5	11.0	5.5	25.5	27.0	17.5	18.5	7.5	37.0	26.5	.	11
PICK DM (AVANTI)	8.0	17.0	12.0	16.0	56.0	1.0	4.0	19.5	29.0	4.0	8.0	6.5	22.0	5.0	24.0	39.0	16.5	12
NORMARC 77 (PHOENIX)	20.0	24.0	38.0	5.0	14.0	29.0	13.0	16.0	3.0	12.0	22.5	37.5	5.5	14.5	29.0	10.5	24.0	13
PST-5AG	44.0	12.0	9.5	10.5	14.0	5.0	4.0	3.0	25.0	1.0	33.0	6.5	15.5	43.0	12.0	53.0	16.5	14
PST-5BL (SILVERADO)	8.0	24.0	32.5	20.0	38.5	2.0	23.5	21.0	32.0	48.0	13.5	12.5	18.5	43.0	29.0	64.0	51.5	15
KWS-DUR	2.5	27.0	55.5	34.5	14.0	22.5	31.0	39.0	42.0	21.0	13.5	21.0	37.0	33.5	12.0	63.0	3.5	16
TRIBUTE	23.0	30.0	22.5	30.0	38.5	18.5	27.5	11.0	1.5	35.5	13.5	12.5	11.0	18.0	12.0	26.5	42.5	17
MONARCH	14.5	10.5	19.5	39.5	14.0	9.0	26.0	6.5	20.5	42.5	8.0	9.0	5.5	2.0	9.0	39.0	61.5	18
PST-5HF (AMIGO)	22.0	27.0	7.0	14.5	14.0	3.0	6.5	11.0	18.5	18.5	22.5	33.0	4.0	23.0	14.5	48.0	56.5	19
PST-5D1 (ELDORADO)	5.0	6.0	12.0	10.5	38.5	20.0	32.0	46.0	7.5	48.0	8.0	4.0	39.5	21.0	39.0	20.0	61.5	20
PICK DDF (SHORTSTOP)	13.0	17.0	17.5	46.0	38.5	15.5	9.0	52.0	35.0	44.0	17.0	15.5	22.0	11.0	8.0	60.0	31.0	21
PST-5OL (OLYMPIC II)	38.5	29.0	25.5	34.5	38.5	17.0	45.0	18.0	15.5	5.0	30.0	42.0	25.5	37.0	19.0	13.5	8.0	22
THOROUGHbred	29.5	20.0	12.0	30.0	14.0	28.0	35.5	14.5	37.5	34.0	33.0	21.0	22.0	25.5	25.5	26.5	8.0	23
CHIEFTAIN	27.0	14.0	9.5	2.5	14.0	21.0	17.0	2.0	56.5	59.5	22.5	26.5	32.0	16.0	22.5	29.5	31.0	24
PST-5F2 (WINCHESTER)	16.0	22.0	38.0	34.5	2.0	50.5	39.5	17.0	17.0	39.0	30.0	12.5	22.0	22.0	21.0	1.0	24.0	25
REBEL II	33.5	6.0	38.0	18.0	14.0	25.0	45.0	4.5	18.5	28.5	22.5	26.5	13.0	19.5	16.5	20.0	42.5	26
WRANGLER	29.5	20.0	6.0	26.0	14.0	13.0	15.0	19.5	28.0	32.0	39.5	37.5	27.0	19.5	22.5	16.5	56.5	27
PICK GH6 (MAVERICK II)	10.5	14.0	22.5	12.5	38.5	36.5	56.0	4.5	48.5	9.0	17.0	21.0	28.5	28.5	14.5	16.5	8.0	28
TRAILBLAZER	17.5	36.0	49.5	28.0	1.0	12.0	4.0	37.0	23.0	3.0	33.0	33.0	41.5	28.5	50.0	23.0	16.5	29
PST-5DM (ARRIBA)	19.0	33.0	28.0	12.5	38.5	25.0	6.5	11.0	32.0	52.5	22.5	45.0	7.5	41.0	19.0	50.5	61.5	30
BONANZA	25.0	39.0	15.0	49.0	14.0	27.0	52.5	28.5	56.5	18.5	19.0	26.5	37.0	33.5	19.0	16.5	42.5	31
MESA	28.0	50.5	32.5	34.5	14.0	33.5	42.5	54.0	50.5	14.5	39.5	21.0	17.0	33.5	29.0	20.0	42.5	32
PST-5EN	46.5	33.0	25.5	39.5	14.0	43.5	10.0	48.5	32.0	54.0	36.0	37.5	22.0	33.5	41.0	3.0	31.0	33
JAGUAR II	48.0	40.5	44.5	24.0	38.5	30.0	14.0	28.5	7.5	35.5	39.5	30.0	13.0	49.0	45.0	39.0	56.5	34
PST-5AP	31.5	48.5	42.5	53.0	38.5	45.5	33.0	23.5	20.5	32.0	39.5	33.0	39.5	43.0	34.0	32.0	31.0	35
PST-DBC (TRADITION)	42.5	31.0	34.0	26.0	38.5	48.0	12.0	37.0	27.0	37.0	42.0	52.0	34.5	40.0	16.5	50.5	16.5	36
LEGEND (BRAHMA)	33.5	38.0	22.5	7.5	38.5	32.0	54.5	55.5	26.0	24.0	54.0	40.0	45.5	33.5	63.0	53.0	42.5	37
OLYMPIC	52.0	45.5	15.0	39.5	14.0	40.5	49.0	11.0	30.0	39.0	47.5	49.0	49.5	7.5	46.0	29.5	3.5	38
KWS-BG-6 (TWILIGHT)	24.0	27.0	65.0	50.5	38.5	48.0	52.5	33.5	5.5	50.0	30.0	26.5	52.0	46.0	43.5	53.0	31.0	39
SUNDANCE	31.5	36.0	52.0	46.0	38.5	52.0	54.5	42.0	45.0	41.0	43.5	37.5	52.0	7.5	37.0	48.0	31.0	40
BAR FA 7851 (BARNONE)	42.5	45.5	52.0	43.5	14.0	33.5	35.5	50.5	48.5	28.5	36.0	45.0	41.5	53.0	34.0	39.0	31.0	41
JB-2	36.5	43.0	3.0	20.0	38.5	22.5	35.5	26.5	34.0	28.5	53.0	62.5	28.5	25.5	52.5	7.5	56.5	42
APACHE	46.5	43.0	38.0	32.0	38.5	48.0	39.5	30.5	43.0	55.0	47.5	26.5	25.5	49.0	47.0	7.5	16.5	43
TAURUS	50.5	24.0	46.5	52.0	38.5	50.5	39.5	57.0	23.0	39.0	27.0	52.0	47.5	57.5	48.0	9.0	42.5	44
PST-5D7 (MURIETTA)	35.0	33.0	54.0	48.0	14.0	35.0	20.0	40.5	52.0	64.0	27.0	41.0	59.0	49.0	25.5	44.5	42.5	45

TABLE 3. (continued)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE  
CULTIVARS AT THIRTY-FIVE LOCATIONS IN THE UNITED STATES  
1990 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING

NAME	NJ2	NJ3	NY1	NY2	OH2	OR1	OR2	RI1	TX1	TX2	UB1	UB2	VA1	VA3	VA4	VA6	WA4	MEAN
TITAN	45.0	47.0	30.5	39.5	56.0	55.0	45.0	43.5	65.0	14.5	51.0	45.0	45.5	14.5	31.0	2.0	42.5	46
ARID	53.0	52.5	38.0	30.0	56.0	45.5	35.5	35.0	40.0	45.5	56.5	49.0	52.0	49.0	34.0	12.0	16.5	47
PICK SLD (EMPEROR)	26.0	36.0	55.5	54.0	14.0	38.5	47.5	46.0	37.5	42.5	43.5	21.0	37.0	49.0	37.0	65.0	42.5	48
REBEL	54.0	48.5	2.0	20.0	63.0	56.0	29.5	23.5	53.5	48.0	47.5	49.0	32.0	30.0	41.0	26.5	31.0	49
JAGUAR	55.0	43.0	30.5	46.0	56.0	43.5	20.0	6.5	12.5	10.0	51.0	54.0	34.5	39.0	41.0	60.0	42.5	50
CIMMARON	40.5	52.5	48.0	50.5	38.5	40.5	63.0	53.0	15.5	14.5	22.5	17.5	47.5	25.5	58.5	56.5	64.0	51
CAREFREE	40.5	50.5	63.0	60.5	56.0	53.0	27.5	46.0	62.0	52.5	45.0	26.5	60.0	45.0	54.0	16.5	1.5	52
FINELAWN 5GL	49.0	54.0	15.0	39.5	38.5	36.5	42.5	50.5	36.0	62.5	47.5	45.0	43.0	53.0	43.5	5.5	8.0	53
TRIDENT	38.5	61.0	49.5	55.0	63.0	42.0	17.0	58.0	40.0	56.0	36.0	52.0	55.0	55.0	51.0	13.5	42.5	54
ADVENTURE	57.0	56.0	44.5	22.5	38.5	38.5	39.5	48.5	50.5	61.0	55.0	58.0	56.0	25.5	55.5	44.5	51.5	55
BEL 86-1	50.5	40.5	60.0	60.5	14.0	57.0	51.0	55.5	64.0	28.5	51.0	45.0	49.5	59.5	49.0	62.0	56.5	56
WILLAMETTE	58.0	62.5	42.5	57.0	38.5	60.0	64.5	60.0	58.0	57.5	61.5	58.0	57.0	57.5	64.0	23.0	16.5	57
FALCON	59.0	55.0	28.0	43.5	38.5	58.0	59.0	43.5	59.0	11.0	58.0	61.0	44.0	53.0	57.0	23.0	51.5	58
PACER	62.0	57.0	57.5	60.5	56.0	64.0	59.0	62.0	45.0	45.5	56.5	56.0	62.0	59.5	52.5	5.5	24.0	59
FINELAWN I	56.0	58.0	59.0	63.0	38.5	62.0	59.0	40.5	55.0	59.5	59.5	60.0	63.5	62.5	55.5	4.0	56.5	60
RICHMOND	60.0	59.0	61.0	60.5	56.0	61.0	57.0	59.0	61.0	22.0	59.5	62.5	61.0	64.0	58.5	48.0	24.0	61
FATIMA	64.0	64.0	57.5	56.0	63.0	63.0	62.0	63.0	63.0	62.5	61.5	64.0	54.0	61.0	60.5	39.0	31.0	62
SYN GA (AQUARA)	61.0	60.0	52.0	58.0	56.0	59.0	64.5	64.0	47.0	51.0	64.0	55.0	58.0	62.5	60.5	44.5	51.5	63
TIP	63.0	62.5	62.0	65.0	63.0	54.0	47.5	61.0	53.5	25.5	63.0	58.0	63.5	56.0	62.0	34.0	42.5	64
KY-31	65.0	65.0	64.0	64.0	63.0	65.0	61.0	65.0	60.0	65.0	65.0	65.0	65.0	65.0	65.0	34.0	42.5	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. SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	ID2	MO3	NJ3	MEAN
PST-5AG	5.3	5.3	6.0	5.6
HUBBARD 87	5.0	5.3	6.0	5.4
KWS-DUR	6.0	5.3	5.0	5.4
PST-5EN	6.3	4.3	5.7	5.4
NORMARC 99 (VEGAS)	4.3	6.0	5.7	5.3
OLYMPIC	5.7	4.7	5.3	5.2
PICK GH6 (MAVERICK II)	6.0	4.7	5.0	5.2
PE-7E (SHENANDOAH)	3.3	6.0	6.0	5.1
PST-5MW (SAFARI)	4.7	5.3	5.3	5.1
REBEL	5.3	4.7	5.3	5.1
BEL 86-2	4.0	5.0	6.0	5.0
CIMMARON	5.3	5.3	4.3	5.0
FINELAWN 5GL	4.0	5.7	5.3	5.0
PST-5D1 (ELDORADO)	4.3	5.7	5.0	5.0
WRANGLER	5.3	4.7	5.0	5.0
FALCON	5.3	4.7	4.7	4.9
JAGUAR II	4.0	5.7	5.0	4.9
TITAN	5.0	4.7	5.0	4.9
APACHE	4.3	5.0	5.3	4.9
NORMARC 77 (PHOENIX)	4.3	5.3	5.0	4.9
TRAILBLAZER	4.0	5.3	5.3	4.9
PICK DM (AVANTI)	4.0	5.7	4.7	4.8
BEL 86-1	5.0	4.3	5.0	4.8
CAREFREE	4.7	4.7	5.0	4.8
JAGUAR	4.3	4.7	5.3	4.8
NORMARC 25 (AUSTIN)	3.3	5.3	5.7	4.8
PST-5AP	3.7	5.3	5.3	4.8
SYN GA (AQUARA)	3.7	4.3	6.3	4.8
THOROUGHBRED	3.7	5.0	5.7	4.8
ARID	3.7	4.7	5.7	4.7
BONANZA	4.0	5.0	5.0	4.7
FATIMA	4.3	4.7	5.0	4.7
PICK 845PN (GUARDIAN)	4.0	5.0	5.0	4.7
PST-5F2 (WINCHESTER)	3.3	5.3	5.3	4.7
PST-5HF (AMIGO)	3.7	5.0	5.3	4.7
PST-DBC (TRADITION)	4.3	5.0	4.7	4.7
SUNDANCE	4.0	5.0	5.0	4.7
TAURUS	4.3	4.3	5.3	4.7
TRIBUTE	3.7	5.0	5.3	4.7
PICK TF9 (CROSSFIRE)	4.0	4.7	5.0	4.6
PE-7	3.3	5.3	5.0	4.6
PICK 127 (COCHISE)	3.0	4.7	5.7	4.4
PST-5D7 (MURIETTA)	4.7	5.3	3.3	4.4
ADVENTURE	4.3	4.0	5.0	4.4
BAR FA 7851 (BARNONE)	3.0	5.0	5.3	4.4

SPRING GREENUP RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	ID2	MO3	NJ3	MEAN
MONARCH	3.7	4.3	5.3	4.4
AZTEC	3.3	5.0	4.7	4.3
CHIEFTAIN	3.3	4.7	5.0	4.3
FINELAWN I	4.3	3.7	5.0	4.3
KY-31	4.3	3.7	5.0	4.3
PICK DDF (SHORTSTOP)	3.0	5.3	4.7	4.3
PICK SLD (EMPEROR)	3.0	5.3	4.7	4.3
PST-5DM (ARRIBA)	3.3	4.7	5.0	4.3
PST-5OL (OLYMPIC II)	3.7	4.3	5.0	4.3
REBEL II	4.0	4.0	5.0	4.3
TRIDENT	4.0	5.3	3.7	4.3
WILLAMETTE	5.3	3.3	4.3	4.3
JB-2	2.7	4.7	5.3	4.2
KWS-BG-6 (TWILIGHT)	4.7	4.0	4.0	4.2
MESA	3.7	4.0	5.0	4.2
TIP	3.7	4.7	4.0	4.1
LEGEND (BRAHMA)	3.7	4.3	4.3	4.1
PACER	3.7	4.0	4.7	4.1
RICHMOND	4.3	3.7	4.3	4.1
PST-5BL (SILVERADO)	3.0	4.3	3.3	3.6
LSL VALUE	2.5	1.5	1.3	1.1

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

TABLE 5. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 1/								
NAME	AR1	ID2	NE1	NJ3	OH2	VA3	VA6	MEAN
KWS-BG-6 (TWILIGHT)	8.7	8.3	6.3	6.0	8.0	7.7	7.7	7.5
NORMARC 99 (VEGAS)	8.0	7.0	6.7	6.0	7.7	7.0	7.7	7.1
PICK DDF (SHORTSTOP)	7.0	7.7	6.3	5.7	8.0	7.7	7.3	7.1
KWS-DUR	7.0	7.7	6.0	5.7	7.7	7.3	6.7	6.9
PICK 127 (COCHISE)	7.0	6.7	5.7	5.7	7.7	7.3	7.3	6.8
PST-5D1 (ELDORADO)	6.7	7.7	5.7	6.0	7.7	6.7	7.0	6.8
AZTEC	7.0	6.7	6.3	6.0	7.0	7.3	6.7	6.7
PE-7E (SHENANDOAH)	7.7	6.3	6.3	6.0	7.3	6.3	7.0	6.7
PST-5BL (SILVERADO)	7.7	7.0	6.3	5.7	7.3	6.7	6.0	6.7
HUBBARD 87	6.7	7.3	6.0	5.7	7.7	6.7	6.3	6.6
MONARCH	7.3	7.0	6.3	6.0	6.7	6.7	6.3	6.6
PICK TF9 (CROSSFIRE)	8.0	6.7	6.0	5.7	8.0	5.7	6.0	6.6
PICK DM (AVANTI)	6.7	7.3	6.0	6.0	7.3	6.3	6.0	6.5
PICK 845PN (GUARDIAN)	7.0	5.0	6.0	6.0	7.3	7.0	7.3	6.5
PST-5MW (SAFARI)	6.7	7.3	5.7	5.7	7.0	6.0	6.7	6.4
PST-5HF (AMIGO)	6.7	7.3	5.7	5.7	7.0	6.0	6.3	6.4
BEL 86-1	6.0	8.0	6.0	5.3	7.0	6.0	6.3	6.4
PICK GH6 (MAVERICK II)	6.3	6.3	6.0	5.3	8.0	6.0	6.3	6.3
NORMARC 25 (AUSTIN)	6.7	6.7	6.0	5.0	7.3	6.0	5.7	6.2
PICK SLD (EMPEROR)	7.3	5.7	5.3	5.0	7.7	6.0	6.3	6.2
PST-5D7 (MURIETTA)	6.0	5.7	6.0	5.0	7.3	6.3	7.0	6.2
PST-5DM (ARRIBA)	6.3	6.0	6.0	5.3	7.0	6.7	6.0	6.2
TRAILBLAZER	6.7	5.7	5.7	5.3	7.3	6.7	5.7	6.1
BONANZA	6.7	6.7	6.0	5.0	7.0	6.0	5.3	6.1
PE-7	6.7	5.0	6.0	4.7	7.7	6.3	6.3	6.1
BEL 86-2	6.0	6.7	5.7	5.0	7.0	6.7	5.7	6.1
PST-5AG	6.3	8.0	5.7	5.0	6.7	5.3	5.7	6.1
PST-5EN	7.0	6.0	5.7	5.0	7.0	5.3	6.3	6.0
TAURUS	7.7	5.3	5.7	5.0	7.0	5.7	6.0	6.0
WRANGLER	5.7	6.7	6.0	5.0	7.0	6.3	5.3	6.0
NORMARC 77 (PHOENIX)	5.7	6.0	6.3	5.0	7.0	6.3	5.7	6.0
MESA	6.7	6.0	6.0	4.7	7.0	6.0	5.3	6.0
CAREFREE	6.3	7.3	5.7	4.3	7.0	6.0	5.0	6.0
CIMMARON	7.7	5.7	5.7	4.7	7.0	5.7	5.0	5.9
PST-5AP	6.7	5.7	5.3	5.0	7.0	5.7	6.0	5.9
TRIBUTE	6.3	5.7	6.0	5.3	7.0	5.7	5.3	5.9
PST-DBC (TRADITION)	6.0	8.0	5.7	5.0	7.0	5.0	4.3	5.9
BAR FA 7851 (BARNONE)	6.3	5.7	6.0	4.7	7.0	5.3	6.0	5.9
PST-5OL (OLYMPIC II)	6.3	5.3	6.0	5.0	7.0	5.3	6.0	5.9
TRIDENT	6.0	7.0	5.3	5.0	7.0	5.0	5.7	5.9
REBEL II	6.7	6.3	5.3	5.0	6.7	5.0	5.7	5.8
SUNDANCE	6.3	5.3	6.0	5.0	7.0	5.7	5.3	5.8
THOROUGHbred	6.3	6.3	5.7	5.0	7.0	4.7	5.7	5.8
APACHE	7.0	5.3	5.7	5.0	6.7	5.0	5.7	5.8
OLYMPIC	6.7	5.0	5.3	4.7	7.0	5.7	6.0	5.8

TABLE 5. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS  
(continued) 1990 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN								
NAME	AR1	ID2	NE1	NJ3	OH2	VA3	VA6	MEAN
LEGEND (BRAHMA)	6.7	4.7	6.0	5.0	7.0	5.7	5.0	5.7
JAGUAR II	6.3	6.3	5.3	4.7	6.7	4.3	6.0	5.7
CHIEFTAIN	5.3	4.7	6.0	5.0	7.0	6.0	5.3	5.6
ADVENTURE	5.7	5.7	5.7	4.0	6.7	4.7	6.7	5.6
JB-2	6.7	3.7	6.0	4.3	7.0	5.3	6.0	5.6
TITAN	5.3	6.7	5.3	4.0	6.7	5.3	5.7	5.6
PST-5F2 (WINCHESTER)	6.3	3.7	5.7	5.0	7.0	5.3	5.7	5.5
FINELAWN 5GL	6.0	5.0	5.7	4.7	7.0	4.7	5.3	5.5
FALCON	6.0	4.0	5.7	4.3	6.7	5.7	4.7	5.3
ARID	5.7	6.0	5.3	4.0	6.0	4.7	4.7	5.2
RICHMOND	5.0	5.7	5.3	4.3	6.7	4.7	4.7	5.2
FINELAWN I	5.7	4.7	5.0	4.0	6.7	4.7	5.3	5.1
PACER	6.0	4.7	5.3	4.0	7.0	4.3	4.7	5.1
FATIMA	5.3	5.7	5.0	4.0	6.0	5.3	4.3	5.1
REBEL	6.0	5.7	5.3	4.3	6.0	4.3	4.0	5.1
SYN GA (AQUARA)	5.0	5.7	5.0	4.0	6.3	4.0	4.7	5.0
JAGUAR	5.0	5.7	5.3	4.0	6.0	4.0	3.7	4.8
WILLAMETTE	5.7	4.3	4.3	3.7	6.3	4.0	4.7	4.7
TIP	5.0	3.7	5.0	4.0	6.3	4.3	4.3	4.7
KY-31	4.0	3.3	4.3	3.0	6.3	4.0	3.3	4.0
LSD VALUE	1.1	2.7	0.8	0.6	0.6	1.1	1.4	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 6. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	AR1	AZ1	ID2	NJ3	OH2	WA4	MEAN
KWS-BG-6 (TWILIGHT)	8.0	6.7	6.7	5.3	6.7	7.0	6.7
KWS-DUR	6.7	6.3	7.0	5.0	7.3	6.3	6.4
NORMARC 99 (VEGAS)	7.7	7.5	6.0	5.0	7.0	5.5	6.4
TAURUS	6.7	6.3	6.7	5.0	7.0	7.0	6.4
HUBBARD 87	6.7	7.0	6.3	6.3	6.7	5.7	6.4
PICK 845PN (GUARDIAN)	7.0	6.7	6.0	6.0	7.3	5.7	6.4
EE-7E (SHENANDOAH)	7.3	6.7	5.7	5.3	7.0	6.0	6.3
AZTEC	7.7	6.3	6.0	5.7	7.0	5.0	6.3
EEL 86-2	6.0	6.7	7.7	5.3	6.7	5.3	6.3
LEGEND (BRAHMA)	6.7	6.0	7.0	5.0	7.0	6.0	6.3
PICK 127 (COCHISE)	7.3	6.7	5.0	5.3	7.0	6.3	6.3
CAREFREE	5.7	6.7	6.3	5.3	7.0	6.3	6.2
CHIEFTAIN	5.0	7.0	6.3	5.3	7.3	6.3	6.2
PICK GH6 (MAVERICK II)	6.3	6.3	6.0	5.0	7.0	6.7	6.2
WRANGLER	6.7	6.0	6.3	5.7	7.0	5.0	6.1
EE-7	6.0	5.7	5.7	5.3	7.3	6.7	6.1
PST-5AG	6.3	6.3	5.3	6.3	7.0	5.0	6.1
PICK TF9 (CROSSFIRE)	7.7	7.0	5.0	5.7	7.0	3.7	6.0
EST-5BL (SILVERADO)	6.3	6.7	5.3	5.0	7.0	5.7	6.0
EST-5HF (AMIGO)	6.3	6.0	5.7	5.0	6.0	7.0	6.0
REBEL II	5.0	6.3	7.7	5.7	6.7	4.7	6.0
THOROUGHBRED	6.3	6.3	5.7	5.0	7.0	5.7	6.0
ARID	6.7	6.0	6.0	4.7	6.0	6.3	5.9
EST-5OL (OLYMPIC II)	6.7	7.0	5.3	5.0	6.7	5.0	5.9
EST-5F2 (WINCHESTER)	5.7	6.3	7.3	5.3	7.0	4.0	5.9
TITAN	6.3	6.3	6.7	5.0	6.7	4.7	5.9
FINELAWN 5GL	5.7	5.5	6.3	4.7	7.0	6.3	5.9
MONARCH	7.0	6.0	4.7	5.3	6.7	5.7	5.9
PICK DDF (SHORTSTOP)	7.3	6.0	5.0	4.7	6.7	5.7	5.9
EST-5D7 (MURIETTA)	5.0	6.0	5.7	5.0	7.0	6.7	5.9
EST-5MW (SAFARI)	4.3	6.0	6.0	6.0	6.7	6.3	5.9
APACHE	7.0	6.3	5.0	4.7	7.0	5.0	5.8
TRIBUTE	6.0	6.0	5.7	4.7	7.0	5.7	5.8
BAR FA 7851 (BARNONE)	5.7	6.5	5.7	4.7	6.7	5.7	5.8
EST-5DM (ARRIBA)	6.7	6.5	5.3	5.0	6.7	4.7	5.8
BONANZA	6.0	5.7	5.0	5.0	7.3	5.7	5.8
OLYMPIC	6.3	6.0	5.7	4.7	6.3	5.7	5.8
PICK SLD (EMPEROR)	5.0	6.3	6.3	5.0	6.7	5.3	5.8
NORMARC 77 (PHOENIX)	6.0	6.0	5.3	5.3	6.7	5.0	5.7
PACER	6.0	6.0	5.0	4.0	6.3	7.0	5.7
JB-2	5.3	6.0	6.3	5.0	7.0	4.3	5.7
PST-5D1 (ELDORADO)	6.7	6.7	5.0	5.3	6.3	4.0	5.7
EST-DBC (TRADITION)	6.7	6.3	5.3	5.0	6.3	4.3	5.7
NORMARC 25 (AUSTIN)	5.7	6.0	5.3	5.0	6.3	.	5.7
FINELAWN I	6.3	5.5	5.0	4.0	6.3	6.7	5.6

TABLE 6. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS  
(continued) 1990 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE							
NAME	AR1	AZ1	ID2	NJ3	OH2	WA4	MEAN
CIMMARON	5.7	6.0	6.0	4.7	6.3	5.0	5.6
MESA	6.3	6.7	5.0	4.7	7.0	4.0	5.6
TRAILBLAZER	5.0	6.0	5.7	5.0	7.0	5.0	5.6
WILLAMETTE	5.0	6.0	6.7	3.7	7.0	5.3	5.6
EST-5EN	6.0	6.0	5.3	5.0	6.7	4.7	5.6
REBEL	5.7	5.5	6.0	5.0	6.0	5.3	5.6
EEL 86-1	5.0	5.7	5.7	4.3	7.0	5.3	5.5
SUNDANCE	5.3	6.3	4.3	5.0	7.0	5.0	5.5
TRIDENT	6.0	6.0	5.3	3.7	6.3	5.7	5.5
PICK DM (AVANTI)	5.3	6.5	5.0	4.7	6.7	4.7	5.5
JAGUAR	5.0	5.3	5.0	4.7	7.0	5.3	5.4
JAGUAR II	6.0	5.7	5.7	5.0	6.7	3.3	5.4
EST-5AP	5.7	6.0	4.7	4.7	6.7	4.7	5.4
ADVENTURE	5.3	6.3	4.3	4.3	6.3	5.7	5.4
SYN GA (AQUARA)	5.7	5.7	5.0	4.0	6.0	5.0	5.2
FALCON	4.7	6.0	5.0	4.0	6.3	4.7	5.1
RICHMOND	5.0	6.0	4.7	4.0	6.0	4.7	5.1
TIP	5.3	5.5	4.3	4.0	5.3	5.0	4.9
FATIMA	5.3	6.0	4.3	3.7	5.3	4.3	4.8
KY-31	4.0	4.7	4.3	3.0	5.3	4.7	4.3
LSD VALUE	1.7	1.2	1.7	0.8	0.8	2.3	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. FALL COLOR RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

FALL COLOR RATINGS 1-9; 9=BEST 1/		
NAME	AZ1	MEAN
AZTEC	9.0	9.0
CIMMARON	9.0	9.0
LEGEND (BRAHMA)	9.0	9.0
NORMARC 99 (VEGAS)	9.0	9.0
PICK DM (AVANTI)	9.0	9.0
PST-5AP	9.0	9.0
THOROUGHbred	9.0	9.0
CHIEFTAIN	8.7	8.7
HUBBARD 87	8.7	8.7
JB-2	8.7	8.7
KWS-DUR	8.7	8.7
MESA	8.7	8.7
NORMARC 25 (AUSTIN)	8.7	8.7
PE-7	8.7	8.7
PE-7E (SHENANDOAH)	8.7	8.7
PICK SLD (EMPEROR)	8.7	8.7
PICK TF9 (CROSSFIRE)	8.7	8.7
PST-5AG	8.7	8.7
PST-5F2 (WINCHESTER)	8.7	8.7
PST-5HF (AMIGO)	8.7	8.7
PST-5MW (SAFARI)	8.7	8.7
PST-5OL (OLYMPIC II)	8.7	8.7
PST-DBC (TRADITION)	8.7	8.7
TAURUS	8.7	8.7
BEL 86-1	8.5	8.5
BEL 86-2	8.5	8.5
FALCON	8.5	8.5
PST-5DM (ARRIBA)	8.5	8.5
REBEL	8.5	8.5
TITAN	8.5	8.5
ADVENTURE	8.3	8.3
APACHE	8.3	8.3
BAR FA 7851 (BARNONE)	8.3	8.3
KWS-BG-6 (TWILIGHT)	8.3	8.3
MONARCH	8.3	8.3
PICK 127 (COCHISE)	8.3	8.3
PICK 845PN (GUARDIAN)	8.3	8.3
PICK DDF (SHORTSTOP)	8.3	8.3
PICK GH6 (MAVERICK II)	8.3	8.3
PST-5BL (SILVERADO)	8.3	8.3
PST-5EN	8.3	8.3
REBEL II	8.3	8.3
RICHMOND	8.3	8.3
WILLAMETTE	8.3	8.3
ARID	8.0	8.0

FALL COLOR RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

FALL COLOR RATINGS 1-9; 9=BEST

NAME	AZ1	MEAN
BONANZA	8.0	8.0
CAREFREE	8.0	8.0
JAGUAR	8.0	8.0
JAGUAR II	8.0	8.0
OLYMPIC	8.0	8.0
PACER	8.0	8.0
PST-5D1 (ELDORADO)	8.0	8.0
PST-5D7 (MURIETTA)	8.0	8.0
SUNDANCE	8.0	8.0
SYN GA (AQUARA)	8.0	8.0
TIP	8.0	8.0
TRAILBLAZER	8.0	8.0
TRIDENT	8.0	8.0
FATIMA	7.7	7.7
FINELAWN 5GL	7.7	7.7
TRIBUTE	7.7	7.7
WRANGLER	7.7	7.7
FINELAWN I	7.5	7.5
KY-31	7.3	7.3
NORMARC 77 (PHOENIX)	7.3	7.3
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 OCCR WHEN THIS VALUE IS LARGER  
THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

TABLE 8. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	AZ1	CA1	MEAN
PST-5MW (SAFARI)	6.0	5.7	5.8
BEL 86-2	5.5	6.0	5.8
PST-5EN	5.7	.	5.7
PST-5AG	5.3	6.0	5.7
PST-5D1 (ELDORADO)	6.0	5.3	5.7
PST-5DM (ARRIBA)	5.5	5.7	5.6
AZTEC	5.7	5.3	5.5
BONANZA	5.3	5.7	5.5
MONARCH	5.3	5.7	5.5
NORMARC 25 (AUSTIN)	6.0	5.0	5.5
NORMARC 77 (PHOENIX)	5.7	5.3	5.5
PICK TF9 (CROSSFIRE)	5.7	5.3	5.5
PST-5BL (SILVERADO)	5.7	5.3	5.5
PST-5D7 (MURIETTA)	5.3	5.7	5.5
PST-5HF (AMIGO)	5.3	5.7	5.5
REBEL II	5.3	5.7	5.5
PICK DM (AVANTI)	5.5	5.3	5.4
REBEL	5.5	5.3	5.4
HUBBARD 87	5.0	5.7	5.3
JB-2	5.0	5.7	5.3
PST-5OL (OLYMPIC II)	5.0	5.7	5.3
BAR FA 7851 (BARNONE)	5.3	5.3	5.3
PE-7E (SHENANDOAH)	5.3	5.3	5.3
PICK 127 (COCHISE)	5.3	5.3	5.3
PICK SLD (EMPEROR)	5.3	5.3	5.3
PST-5F2 (WINCHESTER)	5.3	5.3	5.3
PST-DBC (TRADITION)	5.3	5.3	5.3
TIP	5.3	5.3	5.3
TRAILBLAZER	5.3	5.3	5.3
TRIDENT	5.3	5.3	5.3
WILLAMETTE	5.3	5.3	5.3
ADVENTURE	5.0	5.3	5.2
APACHE	5.0	5.3	5.2
ARID	5.0	5.3	5.2
CAREFREE	5.3	5.0	5.2
CHIEFTAIN	5.0	5.3	5.2
CIMMARON	5.3	5.0	5.2
FALCON	5.0	5.3	5.2
JAGUAR	5.0	5.3	5.2
JAGUAR II	5.3	5.0	5.2
KWS-BG-6 (TWILIGHT)	5.3	5.0	5.2
KWS-DUR	5.3	5.0	5.2
OLYMPIC	5.3	5.0	5.2
PE-7	5.3	5.0	5.2
PICK 845PN (GUARDIAN)	5.3	5.0	5.2

WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	AZ1	CA1	MEAN
PICK GH6 (MAVERICK II)	5.0	5.3	5.2
PST-5AP	5.3	5.0	5.2
SYN GA (AQUARA)	5.0	5.3	5.2
TAURUS	5.0	5.3	5.2
WRANGLER	5.3	5.0	5.2
BEL 86-1	5.3	4.7	5.0
FINELAWN 5GL	5.0	5.0	5.0
FINELAWN I	5.0	5.0	5.0
LEGEND (BRAHMA)	5.0	5.0	5.0
NORMARC 99 (VEGAS)	5.0	5.0	5.0
PACER	5.0	5.0	5.0
PICK DDF (SHORTSTOP)	5.0	5.0	5.0
RICHMOND	5.0	5.0	5.0
THOROUGHbred	5.0	5.0	5.0
TRIBUTE	5.0	5.0	5.0
FATIMA	5.0	4.7	4.8
MESA	5.0	4.7	4.8
SUNDANCE	5.0	4.7	4.8
TITAN	5.0	4.7	4.8
KY-31	4.3	4.7	4.5
LSL VALUE	0.8	0.8	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  
1990 DATA

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

NAME	AR1	AZ1	CA1	ID2	MO3	NJ3	WA4	MEAN
NORMARC 99 (VEGAS)	7.7	7.5	8.0	8.7	8.0	6.0	7.5	7.6
HUBBARD 87	5.3	7.5	8.0	9.0	7.7	5.7	8.7	7.4
KWS-BG-6 (TWILIGHT)	6.7	7.0	8.0	8.3	8.0	5.3	8.3	7.4
PST-5AG	5.7	7.0	8.0	9.0	7.0	6.3	8.7	7.4
PE-7	5.7	6.0	8.0	9.0	8.7	6.0	8.0	7.3
PE-7E (SHENANDOAH)	6.0	7.0	8.0	8.3	8.3	6.3	6.7	7.2
BEL 86-2	5.7	6.7	8.0	8.7	8.0	6.0	7.7	7.2
PICK TF9 (CROSSFIRE)	7.3	7.0	8.3	9.0	7.0	5.7	6.3	7.2
TRIBUTE	5.7	7.0	8.0	9.0	8.3	5.5	6.7	7.2
PST-DBC (TRADITION)	6.7	7.0	8.0	9.0	7.0	5.0	7.3	7.1
NORMARC 77 (PHOENIX)	5.0	7.0	8.0	9.0	8.0	5.3	7.7	7.1
PICK 845PN (GUARDIAN)	6.7	6.7	8.0	7.7	7.3	6.7	7.0	7.1
FINELAWN 5GL	5.7	6.5	8.0	9.0	8.0	5.0	7.3	7.1
TITAN	5.3	6.5	8.3	9.0	8.0	5.3	7.0	7.1
BONANZA	5.3	6.7	8.0	9.0	7.0	5.7	7.7	7.0
KWS-DUR	5.0	7.0	8.0	9.0	7.7	5.0	7.7	7.0
PST-5OL (OLYMPIC II)	6.3	7.0	8.0	9.0	7.0	4.3	7.7	7.0
CAREFREE	5.0	6.7	8.0	9.0	7.7	5.5	7.3	7.0
ARID	5.7	6.3	8.0	9.0	8.0	5.0	7.0	7.0
PICK 127 (COCHISE)	6.7	7.0	8.0	8.3	7.3	5.7	6.0	7.0
PICK GH6 (MAVERICK II)	4.7	7.0	8.0	8.7	7.0	5.0	8.7	7.0
APACHE	5.7	7.0	8.0	8.3	7.0	4.7	8.0	7.0
PICK DM (AVANTI)	4.7	7.5	8.0	8.0	7.3	5.5	7.7	7.0
REBEL II	5.3	7.0	8.0	8.7	7.7	5.5	6.3	6.9
AZTEC	6.3	6.3	8.0	8.0	7.3	5.3	7.0	6.9
PST-5D7 (MURIETTA)	4.3	7.0	8.0	9.0	7.7	5.3	7.0	6.9
PST-5HF (AMIGO)	6.0	6.7	8.0	9.0	6.7	5.3	6.7	6.9
PST-5AP	5.3	6.3	8.0	8.7	7.3	5.0	7.7	6.9
TAURUS	6.0	6.7	8.0	8.3	7.7	5.0	6.7	6.9
NORMARC 25 (AUSTIN)	5.0	6.7	8.0	9.0	7.7	5.0	.	6.9
PST-5EN	6.0	6.3	.	8.7	8.0	4.5	7.7	6.9
THOROUGHBRED	5.3	6.7	7.7	9.0	6.7	4.3	8.3	6.9
WRANGLER	6.3	7.0	8.0	8.7	8.0	5.0	5.0	6.9
TRIDENT	5.3	6.3	8.0	9.0	8.0	3.7	7.7	6.9
RICHMOND	5.0	6.7	8.0	9.0	7.3	4.5	7.3	6.8
LEGEND (BRAHMA)	5.7	6.5	8.0	8.3	7.7	4.7	7.0	6.8
OLYMPIC	5.7	6.3	8.0	9.0	7.3	4.3	7.0	6.8
PST-5MW (SAFARI)	4.0	6.3	8.0	9.0	6.7	6.3	7.3	6.8
MESA	5.7	6.3	8.0	9.0	7.7	4.5	6.3	6.8
CHIEFTAIN	5.0	7.3	8.0	7.7	7.3	5.3	6.7	6.8
REBEL	5.0	6.5	8.0	8.0	8.0	4.5	7.3	6.8
SUNDANCE	4.7	6.7	8.0	8.7	7.3	4.3	7.7	6.8
TRAILBLAZER	4.3	6.3	8.0	8.7	7.3	5.3	7.3	6.8
JAGUAR II	5.7	6.0	8.0	8.7	7.0	5.0	6.7	6.7
SYN GA (AQUARA)	5.3	6.0	7.3	9.0	8.0	5.0	6.3	6.7

TABLE 9. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS  
(continued) 1990 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY							MEAN
	AR1	AZ1	CA1	ID2	MO3	NJ3	WA4	
PST-5BL (SILVERADO)	5.0	7.0	8.0	8.7	7.0	5.7	5.7	6.7
BAR FA 7851 (BARNONE)	5.0	6.5	8.0	8.0	8.3	4.7	6.3	6.7
FINELAWN I	5.3	7.0	8.0	9.0	7.7	3.5	6.3	6.7
ADVENTURE	5.0	6.7	8.0	9.0	8.0	4.3	5.7	6.7
MONARCH	6.0	6.3	8.0	9.0	7.0	5.3	5.0	6.7
PST-5F2 (WINCHESTER)	4.7	6.3	8.0	8.0	8.0	5.5	6.0	6.6
PST-5D1 (ELDORADO)	5.7	6.7	8.0	8.7	7.3	5.0	5.0	6.6
WILLAMETTE	5.3	6.0	8.0	8.7	7.0	3.7	7.7	6.6
CIMMARON	5.0	7.3	8.0	8.7	7.3	5.0	4.7	6.6
FATIMA	5.3	5.7	8.0	9.0	7.0	3.7	7.3	6.6
PICK DDF (SHORTSTOP)	5.0	5.7	7.7	8.7	7.0	5.7	6.3	6.6
PICK SLD (EMPEROR)	4.3	6.7	8.0	7.3	8.0	5.7	6.0	6.6
PACER	5.3	6.5	7.7	7.3	7.0	4.5	7.3	6.5
TIP	5.3	5.5	8.0	9.0	6.0	4.0	7.3	6.5
JAGUAR	5.0	6.0	8.0	8.3	6.3	4.7	6.7	6.4
FALCON	4.7	6.0	8.0	7.7	8.0	4.5	6.0	6.4
BEL 86-1	4.3	6.0	8.0	9.0	7.0	5.0	5.3	6.4
PST-5DM (ARRIBA)	5.7	6.0	8.0	7.7	7.7	4.7	4.3	6.3
JB-2	5.0	6.0	8.0	7.3	7.3	5.0	5.0	6.2
KY-31	4.3	5.0	7.3	8.3	5.0	3.5	5.3	5.5
LSD VALUE	1.5	1.1	0.4	1.5	1.1	1.4	2.6	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. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 1/						
NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
PE-7E (SHENANDOAH)	7.3	8.0	7.7	7.7	5.3	7.2
PICK 845PN (GUARDIAN)	6.7	8.0	8.0	6.7	5.7	7.0
PST-5AG	5.3	7.7	8.0	7.0	6.7	6.9
PST-5OL (OLYMPIC II)	7.3	7.3	8.0	6.7	5.0	6.9
APACHE	7.3	8.0	7.7	6.0	5.0	6.8
HUBBARD 87	5.0	8.0	8.0	8.0	5.0	6.8
PICK GH6 (MAVERICK II)	5.0	8.0	8.0	7.0	6.0	6.8
TRIBUTE	6.3	8.0	7.3	7.3	5.0	6.8
BEL 86-2	6.3	7.5	8.0	6.7	5.3	6.8
PST-5DM (ARRIBA)	6.0	7.5	8.3	6.7	5.3	6.8
PICK TF9 (CROSSFIRE)	6.0	8.0	7.7	6.7	5.3	6.7
PST-DBC (TRADITION)	6.7	8.0	7.7	6.7	4.7	6.7
AZTEC	5.0	8.0	8.0	6.3	6.3	6.7
KWS-BG-6 (TWILIGHT)	5.3	8.0	7.7	7.3	5.3	6.7
MONARCH	5.3	7.3	8.0	7.0	6.0	6.7
PST-5AP	6.0	8.0	7.3	7.3	5.0	6.7
TITAN	6.3	7.7	7.3	6.7	5.7	6.7
NORMARC 99 (VEGAS)	6.3	7.5	7.7	6.3	5.7	6.7
ARID	6.7	8.0	7.7	6.7	4.3	6.7
PE-7	5.7	7.7	8.0	7.7	4.3	6.7
REBEL II	5.7	8.0	7.7	6.7	5.3	6.7
TRAILBLAZER	5.0	8.0	8.0	7.3	5.0	6.7
BAR FA 7851 (BARNONE)	5.3	8.0	7.3	7.0	5.3	6.6
KWS-DUR	5.7	7.3	7.7	7.3	5.0	6.6
NORMARC 77 (PHOENIX)	5.0	8.0	8.0	7.0	5.0	6.6
PICK 127 (COCHISE)	5.7	7.3	7.7	7.0	5.3	6.6
PST-5BL (SILVERADO)	5.0	8.0	7.7	6.7	5.7	6.6
PST-5D1 (ELDORADO)	5.0	8.0	7.3	7.3	5.3	6.6
TAURUS	6.0	8.0	7.3	6.7	5.0	6.6
WRANGLER	6.0	7.7	7.7	7.0	4.7	6.6
PST-5D7 (MURIETTA)	5.3	8.0	7.7	6.7	5.0	6.5
PICK DDF (SHORTSTOP)	6.0	7.3	7.3	7.0	5.0	6.5
PST-5HF (AMIGO)	5.3	8.0	7.7	6.0	5.7	6.5
PST-5EN	6.7	8.0	.	6.7	4.7	6.5
PST-5MW (SAFARI)	4.0	8.0	7.7	6.7	6.0	6.5
LEGEND (BRAHMA)	5.3	8.0	8.0	7.0	4.0	6.5
PST-5F2 (WINCHESTER)	5.3	7.0	7.3	7.3	5.3	6.5
JAGUAR II	5.3	8.0	8.0	6.0	4.7	6.4
PICK DM (AVANTI)	4.0	8.0	8.0	7.3	4.7	6.4
PICK SLD (EMPEROR)	5.0	7.3	7.3	7.7	4.7	6.4
REBEL	5.3	8.0	7.0	7.0	4.7	6.4
THOROUGHbred	5.7	8.0	8.0	6.0	4.3	6.4
CHIEFTAIN	5.0	8.0	7.3	6.3	5.3	6.4
PACER	6.3	7.5	7.0	6.7	4.3	6.4
BONANZA	5.0	7.7	7.3	6.7	5.0	6.3

SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	AZ1	CA1	MO3	NJ3	MEAN
CAREFREE	5.0	8.0	7.3	6.7	4.7	6.3
FINELAWN I	6.3	8.0	7.7	6.0	3.7	6.3
NORMARC 25 (AUSTIN)	4.3	8.0	7.7	6.7	5.0	6.3
SUNDANCE	5.0	8.0	7.7	6.7	4.3	6.3
MESA	6.0	8.0	7.3	6.0	4.3	6.3
CIMMARON	6.0	7.3	7.0	6.3	4.7	6.3
JAGUAR	5.0	8.0	7.3	6.0	5.0	6.3
OLYMPIC	5.0	8.0	7.0	7.3	4.0	6.3
TRIDENT	5.7	8.0	7.3	6.3	4.0	6.3
JB-2	5.3	8.0	7.3	6.3	4.3	6.3
ADVENTURE	5.3	7.3	7.7	5.7	5.0	6.2
FATIMA	6.0	8.0	6.7	6.3	3.7	6.1
WILLAMETTE	5.7	7.7	7.3	6.0	4.0	6.1
BEL 86-1	4.3	8.0	7.7	6.3	4.3	6.1
FINELAWN 5GL	5.0	7.3	7.7	6.3	4.3	6.1
SYN GA (AQUARA)	5.7	7.3	7.0	6.3	4.3	6.1
RICHMOND	5.3	8.0	7.0	6.0	4.0	6.1
TIP	6.3	7.3	7.3	5.3	4.0	6.1
FALCON	5.0	8.0	7.3	5.3	4.3	6.0
KY-31	4.3	8.0	6.3	4.3	3.3	5.3
LSD VALUE	1.8	1.0	0.9	1.2	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 11. FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 1/					
NAME	AR1	CA1	MO3	NJ3	MEAN
WRANGLER	6.7	7.7	8.3	5.7	7.1
PICK 845FN (GUARDIAN)	6.3	7.7	8.0	6.3	7.1
LEGEND (BRAHMA)	6.7	7.3	8.3	5.7	7.0
PE-7E (SHENANDOAH)	7.3	7.3	8.0	5.3	7.0
PST-5AG	6.0	6.7	7.7	7.0	6.8
PICK DDF (SHORTSTOP)	7.0	7.0	8.0	5.3	6.8
HUBBARD 87	5.3	7.7	8.0	6.0	6.8
PICK TF9 (CROSSFIRE)	6.3	7.3	8.0	5.3	6.8
BEL 86-2	6.7	7.0	7.3	5.7	6.7
KWS-BG-6 (TWILIGHT)	6.3	7.0	8.3	5.0	6.7
MONARCH	6.3	7.7	7.3	5.3	6.7
PE-7	5.3	7.3	8.7	5.3	6.7
PICK 127 (COCHISE)	6.0	7.0	7.7	5.7	6.6
KWS-DUR	5.7	7.3	8.0	5.3	6.6
NORMARC 25 (AUSTIN)	5.0	7.3	8.0	6.0	6.6
PST-5OL (OLYMPIC II)	6.3	7.0	7.3	5.7	6.6
TRIBUTE	6.3	7.0	8.0	5.0	6.6
NORMARC 77 (PHOENIX)	5.7	7.3	8.0	5.0	6.5
PST-5MW (SAFARI)	5.0	7.3	7.7	6.0	6.5
TAURUS	5.7	7.3	7.7	5.3	6.5
ARID	6.0	7.0	7.7	5.0	6.4
PST-5D7 (MURIETTA)	5.7	7.0	7.7	5.3	6.4
AZTEC	5.0	8.0	7.3	5.3	6.4
NORMARC 99 (VEGAS)	6.3	7.0	7.3	5.0	6.4
PST-DBC (TRADITION)	6.3	7.0	7.0	5.3	6.4
SUNDANCE	5.3	7.3	7.7	5.3	6.4
THOROUGHbred	6.0	7.0	7.3	5.3	6.4
BAR FA 7851 (BARNONE)	5.7	7.0	8.0	4.7	6.3
JAGUAR II	5.7	7.3	7.7	4.7	6.3
PICK SLD (EMPEROR)	5.0	7.0	7.7	5.7	6.3
PST-5BL (SILVERADO)	4.7	7.7	7.3	5.7	6.3
MESA	6.0	7.0	7.3	5.0	6.3
PICK DM (AVANTI)	5.0	7.0	8.0	5.3	6.3
PICK GH6 (MAVERICK II)	5.0	7.3	7.7	5.3	6.3
PST-5F2 (WINCHESTER)	5.3	7.0	8.0	5.0	6.3
TRAILBLAZER	5.0	7.0	8.0	5.3	6.3
PST-5D1 (ELDORADO)	5.0	6.7	7.7	5.7	6.3
REBEL II	5.7	7.0	6.7	5.7	6.3
PST-5AP	5.3	7.0	7.7	5.0	6.3
REBEL	5.0	7.0	7.7	5.3	6.3
TITAN	5.0	7.0	7.7	5.3	6.3
BONANZA	5.3	7.3	7.0	5.3	6.3
CHIEFTAIN	5.3	7.0	7.3	5.3	6.3
JB-2	5.3	7.0	7.3	5.3	6.3
PST-5EN	6.3	.	7.0	5.3	6.2

FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	AR1	CA1	MO3	NJ3	MEAN
PST-5DM (ARRIBA)	5.3	7.3	7.3	4.7	6.2
PST-5HF (AMIGO)	5.0	7.0	7.0	5.7	6.2
TIP	5.7	7.3	6.7	5.0	6.2
APACHE	6.3	7.0	7.0	4.3	6.2
FATIMA	5.7	6.7	7.3	4.7	6.1
CIMMARON	5.3	7.3	7.0	4.7	6.1
FINELAWN 5GL	5.0	7.0	7.3	5.0	6.1
OLYMPIC	5.3	6.3	7.7	5.0	6.1
WILLAMETTE	5.3	6.7	7.3	5.0	6.1
ADVENTURE	5.0	7.0	7.7	4.3	6.0
FALCON	5.0	6.7	7.0	5.3	6.0
CAREFREE	4.7	7.0	7.0	5.0	5.9
PACER	5.7	6.7	7.3	4.0	5.9
TRIDENT	4.7	6.7	7.0	5.0	5.8
BEL 86-1	4.7	7.0	7.3	4.3	5.8
FINELAWN I	5.0	6.3	7.3	4.7	5.8
SYN GA (AQUARA)	4.7	6.0	7.7	4.7	5.8
JAGUAR	4.0	7.0	6.7	5.0	5.7
RICHMOND	4.0	6.3	6.7	4.3	5.3
KY-31	3.0	5.0	5.7	4.0	4.4
LSD VALUE	1.7	0.8	1.0	1.0	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 12. PERCENT LIVING GROUND COVER (SPRING)  
RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/						
NAME	AZ1	ID2	MO1	MO3	WA4	MEAN
REBEL	99.0	91.3	73.3	96.3	97.7	91.5
JAGUAR	99.0	88.0	68.3	93.3	97.7	89.3
HUBBARD 87	99.0	91.3	58.3	94.7	99.0	88.5
PST-5EN	99.0	91.3	58.3	97.7	96.0	88.5
PST-5MW (SAFARI)	99.0	83.3	65.0	96.3	97.7	88.3
PE-7	99.0	85.0	65.0	93.3	97.7	88.0
PST-5AG	99.0	88.3	60.0	95.0	96.0	87.7
REBEL II	99.0	81.7	68.3	96.3	93.0	87.7
PICK 845PN (GUARDIAN)	99.0	83.3	66.7	90.0	99.0	87.6
OLYMPIC	99.0	88.3	60.0	95.0	94.3	87.3
WILLAMETTE	99.0	90.0	55.0	93.3	99.0	87.3
NORMARC 99 (VEGAS)	99.0	78.3	65.0	94.7	97.0	86.8
LEGEND (BRAHMA)	99.0	80.0	66.7	91.7	96.3	86.7
RICHMOND	99.0	90.0	60.0	93.3	91.3	86.7
NORMARC 77 (PHOENIX)	99.0	83.3	63.3	93.3	94.3	86.7
PST-5AP	99.0	83.3	60.0	93.3	97.7	86.7
MESA	97.7	83.3	68.3	95.0	88.3	86.5
THOROUGHbred	99.0	84.7	55.0	95.0	99.0	86.5
FINELAWN I	99.0	85.0	65.0	94.7	88.3	86.4
TRAILBLAZER	99.0	80.0	63.3	93.3	96.0	86.3
CAREFREE	99.0	85.0	53.3	96.3	97.7	86.3
TRIBUTE	99.0	78.3	68.3	95.0	90.0	86.1
PICK SLD (EMPEROR)	99.0	83.3	61.7	91.7	94.7	86.1
BONANZA	99.0	80.0	60.0	96.3	94.7	86.0
PICK GH6 (MAVERICK II)	99.0	83.3	56.7	95.0	96.0	86.0
TRIDENT	99.0	83.3	58.3	93.3	96.0	86.0
BEL 86-2	99.0	86.7	50.0	96.3	97.7	85.9
TIP	99.0	83.3	55.0	94.7	97.7	85.9
CHIEFTAIN	99.0	80.0	56.7	97.7	96.0	85.9
PE-7E (SHENANDOAH)	99.0	83.3	61.7	93.3	91.3	85.7
KWS-DUR	99.0	83.3	58.3	93.3	93.0	85.4
FATIMA	99.0	80.0	60.0	90.0	97.7	85.3
PST-5D7 (MURIELTA)	99.0	80.0	51.7	97.7	96.3	84.9
SUNDANCE	99.0	80.0	56.7	90.0	99.0	84.9
TAURUS	99.0	85.0	55.0	93.3	91.3	84.7
ARID	99.0	81.7	55.0	95.0	92.7	84.7
PST-5D1 (ELDORADO)	99.0	83.3	61.7	97.7	81.7	84.7
PST-5OL (OLYMPIC II)	99.0	81.7	50.0	96.3	96.0	84.6
PST-5F2 (WINCHESTER)	99.0	75.0	56.7	96.3	94.7	84.3
APACHE	99.0	83.3	41.7	97.7	99.0	84.1
PACER	99.0	83.3	51.7	93.3	93.0	84.1
PICK DM (AVANTI)	99.0	78.3	53.3	94.7	94.3	83.9
JAGUAR II	99.0	78.3	60.0	95.0	86.7	83.8
KWS-BG-6 (TWILIGHT)	99.0	81.7	51.7	88.3	97.7	83.7
FINELAWN 5GL	99.0	80.0	46.7	97.7	94.7	83.6

TABLE 12. PERCENT LIVING GROUND COVER (SPRING)  
 (continued) RATINGS OF TALL FESCUE CULTIVARS  
 1990 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS						
NAME	AZ1	ID2	MO1	MO3	WA4	MEAN
NORMARC 25 (AUSTIN)	99.0	81.7	58.3	94.7	.	83.4
TITAN	99.0	81.7	50.0	91.7	93.0	83.1
FALCON	99.0	86.7	43.3	95.0	91.3	83.1
AZTEC	99.0	78.3	50.0	90.0	97.7	83.0
PST-DBC (TRADITION)	99.0	83.3	41.7	96.3	94.7	83.0
PST-5HF (AMIGO)	99.0	76.7	56.7	93.3	88.0	82.7
BAR FA 7851 (BARNONE)	99.0	83.3	48.3	96.3	81.7	81.7
WRANGLER	99.0	83.3	53.3	95.0	76.7	81.5
BEL 86-1	99.0	84.7	46.7	95.0	81.7	81.4
PICK TF9 (CROSSFIRE)	99.0	80.0	43.3	95.0	89.7	81.4
PICK 127 (COCHISE)	99.0	75.0	55.0	90.0	86.7	81.1
PST-5DM (ARRIBA)	99.0	78.3	53.3	97.7	76.7	81.0
MONARCH	99.0	73.3	56.7	95.0	80.0	80.8
CIMMARON	99.0	81.7	51.7	95.0	76.3	80.7
ADVENTURE	99.0	80.0	50.0	94.7	79.7	80.7
SYN GA (AQUARA)	99.0	80.0	38.3	93.3	91.3	80.4
PST-5BL (SILVERADO)	99.0	80.0	45.0	95.0	81.3	80.1
KY-31	99.0	81.7	35.0	93.3	90.0	79.8
JB-2	99.0	76.7	40.0	96.3	84.7	79.3
PICK DDF (SHORTSTOP)	99.0	71.7	51.7	90.0	82.7	79.0
LSD VALUE	0.5	11.1	19.2	5.3	17.0	5.8

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 13. PERCENT LIVING GROUND COVER (SUMMER)  
RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/

NAME	AZ1	MO1	MO3	MEAN
HUBBARD 87	99.0	63.3	91.7	84.7
MESA	99.0	61.7	86.7	82.4
PST-5AP	99.0	56.7	88.3	81.3
TRAILBLAZER	99.0	55.0	88.3	80.8
KWS-DUR	97.7	56.7	86.7	80.3
BONANZA	99.0	51.7	90.0	80.2
PE-7	99.0	48.3	91.7	79.7
NORMARC 77 (PHOENIX)	97.7	51.7	88.3	79.2
PST-5D7 (MURIETTA)	97.7	48.3	91.7	79.2
CHIEFTAIN	99.0	48.3	90.0	79.1
FATIMA	99.0	55.0	83.3	79.1
NORMARC 25 (AUSTIN)	99.0	51.7	86.7	79.1
TRIBUTE	99.0	51.7	86.7	79.1
NORMARC 99 (VEGAS)	99.0	53.3	83.3	78.6
PE-7E (SHENANDOAH)	99.0	46.7	90.0	78.6
REBEL	99.0	48.3	88.3	78.6
BEL 86-2	99.0	46.7	88.3	78.0
JAGUAR II	99.0	48.3	86.7	78.0
KWS-BG-6 (TWILIGHT)	99.0	50.0	85.0	78.0
OLYMPIC	99.0	46.7	88.3	78.0
PST-5BL (SILVERADO)	99.0	46.7	88.3	78.0
TITAN	99.0	48.3	86.7	78.0
PST-5OL (OLYMPIC II)	97.7	46.7	88.3	77.6
PICK 845PN (GUARDIAN)	99.0	45.0	88.3	77.4
PST-5D1 (ELDORADO)	99.0	51.7	81.7	77.4
PST-5DM (ARRIBA)	99.0	48.3	85.0	77.4
PST-5HF (AMIGO)	99.0	50.0	83.3	77.4
REBEL II	99.0	48.3	85.0	77.4
THOROUGHbred	99.0	46.7	86.7	77.4
PICK SLD (EMPEROR)	97.7	43.3	90.0	77.0
PST-5MW (SAFARI)	99.0	45.0	86.7	76.9
PICK TF9 (CROSSFIRE)	99.0	41.7	90.0	76.9
PICK 127 (COCHISE)	96.0	46.7	86.7	76.4
AZTEC	99.0	46.7	83.3	76.3
PICK GH6 (MAVERICK II)	99.0	45.0	85.0	76.3
PST-5EN	99.0	46.7	83.3	76.3
TAURUS	99.0	45.0	85.0	76.3
BAR FA 7851 (BARNONE)	94.3	46.7	86.7	75.9
SUNDANCE	96.0	45.0	86.7	75.9
ARID	99.0	46.7	81.7	75.8
PST-DBC (TRADITION)	99.0	41.7	86.7	75.8
PACER	97.0	48.3	81.7	75.7
WRANGLER	96.3	48.3	81.7	75.4
MONARCH	97.7	41.7	86.7	75.3
BEL 86-1	99.0	45.0	81.7	75.2

PERCENT LIVING GROUND COVER (SUMMER)  
 RATINGS OF TALL FESCUE CULTIVARS  
 1990 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	AZ1	MO1	MO3	MEAN
WILLAMETTE	99.0	45.0	81.7	75.2
PST-5AG	97.7	36.7	90.0	74.8
PST-5F2 (WINCHESTER)	94.3	45.0	85.0	74.8
APACHE	99.0	40.0	85.0	74.7
CAREFREE	99.0	41.7	83.3	74.7
FALCON	99.0	43.3	81.7	74.7
JAGUAR	99.0	41.7	83.3	74.7
PICK DM (AVANTI)	99.0	38.3	86.7	74.7
FINELAWN 5GL	96.0	43.3	83.3	74.2
FINELAWN I	99.0	38.3	85.0	74.1
LEGEND (BRAHMA)	99.0	40.0	83.3	74.1
PICK DDF (SHORTSTOP)	97.7	36.7	86.7	73.7
RICHMOND	99.0	41.7	80.0	73.6
TRIDENT	99.0	36.7	85.0	73.6
ADVENTURE	97.7	40.0	81.7	73.1
JB-2	99.0	36.7	83.3	73.0
SYN GA (AQUARA)	94.3	40.0	81.7	72.0
KY-31	99.0	41.7	75.0	71.9
TIP	79.7	45.0	81.7	68.8
CIMMARON	79.3	38.3	88.3	68.7
LSD VALUE	10.9	15.3	8.5	6.9

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 14. PERCENT LIVING GROUND COVER (FALL)  
RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/				
NAME	AZ1	MO3	VA6	MEAN
NORMARC 77 (PHOENIX)	96.0	97.7	96.0	96.6
REBEL II	99.0	97.7	90.3	95.7
TRAILBLAZER	99.0	97.7	88.3	95.0
BONANZA	99.0	99.0	86.7	94.9
NORMARC 25 (AUSTIN)	99.0	99.0	85.0	94.3
PACER	99.0	97.7	85.0	93.9
PE-7E (SHENANDOAH)	99.0	97.7	85.0	93.9
PST-5EN	99.0	96.0	86.7	93.9
FINELAWN 5GL	99.0	94.7	87.7	93.8
PST-5D7 (MURIETTA)	99.0	99.0	83.3	93.8
THOROUGHbred	99.0	93.0	88.3	93.4
APACHE	99.0	99.0	82.0	93.3
JAGUAR II	99.0	99.0	81.7	93.2
PST-5F2 (WINCHESTER)	99.0	99.0	81.7	93.2
REBEL	99.0	99.0	81.7	93.2
TITAN	99.0	99.0	81.7	93.2
JB-2	99.0	96.3	83.3	92.9
TRIBUTE	99.0	96.3	83.3	92.9
PE-7	99.0	97.7	81.7	92.8
PICK DM (AVANTI)	99.0	97.7	81.7	92.8
PST-5OL (OLYMPIC II)	99.0	97.7	81.7	92.8
TRIDENT	99.0	97.7	81.7	92.8
BAR FA 7851 (BARNONE)	99.0	99.0	80.0	92.7
NORMARC 99 (VEGAS)	99.0	99.0	80.0	92.7
FATIMA	99.0	94.7	83.3	92.3
TAURUS	99.0	96.3	81.7	92.3
WRANGLER	96.0	99.0	82.0	92.3
HUBBARD 87	99.0	96.0	81.7	92.2
OLYMPIC	99.0	96.0	81.7	92.2
PST-5DM (ARRIBA)	97.0	99.0	80.0	92.0
KY-31	99.0	94.7	81.7	91.8
WILLAMETTE	97.7	96.0	81.7	91.8
CHIEFTAIN	99.0	96.3	79.7	91.7
MESA	99.0	96.0	80.0	91.7
MONARCH	96.0	99.0	80.0	91.7
PST-5D1 (ELDORADO)	99.0	96.0	80.0	91.7
BEL 86-2	99.0	99.0	76.7	91.6
PST-DBC (TRADITION)	99.0	97.7	76.7	91.1
PST-5AG	99.0	99.0	75.0	91.0
RICHMOND	99.0	99.0	75.0	91.0
CAREFREE	99.0	94.7	78.3	90.7
PICK 845PN (GUARDIAN)	99.0	94.7	78.3	90.7
PICK 127 (COCHISE)	97.7	99.0	75.0	90.6
ARID	99.0	94.3	78.3	90.6
KWS-BG-6 (TWILIGHT)	97.7	90.0	83.3	90.3

PERCENT LIVING GROUND COVER (FALL)  
 RATINGS OF TALL FESCUE CULTIVARS  
 1990 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	AZ1	MO3	VA6	MEAN
TIP	96.3	93.0	81.7	90.3
PST-5BL (SILVERADO)	97.7	97.7	75.0	90.1
SYN GA (AQUARA)	99.0	94.7	76.7	90.1
SUNDANCE	99.0	91.7	78.3	89.7
FINELAWN I	99.0	93.0	76.7	89.6
PICK TF9 (CROSSFIRE)	99.0	97.7	71.7	89.4
PICK GH6 (MAVERICK II)	99.0	96.0	73.3	89.4
FALCON	99.0	91.7	76.7	89.1
LEGEND (BRAHMA)	99.0	91.3	76.7	89.0
KWS-DUR	99.0	96.0	71.7	88.9
PST-5MW (SAFARI)	99.0	96.0	71.7	88.9
BEL 86-1	99.0	90.0	76.7	88.6
PST-5HF (AMIGO)	99.0	89.7	76.7	88.4
PST-5AP	96.0	99.0	70.0	88.3
PICK DDF (SHORTSTOP)	97.7	94.7	71.7	88.0
AZTEC	99.0	96.3	68.3	87.9
JAGUAR	99.0	96.0	68.3	87.8
ADVENTURE	97.7	96.3	68.3	87.4
CIMMARON	99.0	86.7	73.3	86.3
PICK SLD (EMPEROR)	99.0	97.7	61.7	86.1
LSD VALUE	2.7	6.1	16.3	6.0

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 15. LEAFSPOT RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE 1/			
NAME	TX1	TX2	MEAN
JAGUAR	4.3	4.0	4.2
JB-2	4.0	4.3	4.2
ARID	4.3	3.7	4.0
BAR FA 7851 (BARNONE)	3.7	4.3	4.0
HUBBARD 87	3.3	4.7	4.0
JAGUAR II	4.3	3.7	4.0
LEGEND (BRAHMA)	3.7	4.3	4.0
PST-5AG	4.0	4.0	4.0
REBEL	4.3	3.7	4.0
PICK DM (AVANTI)	3.0	4.7	3.8
ADVENTURE	4.0	3.7	3.8
AZTEC	3.7	4.0	3.8
KWS-DUR	3.7	4.0	3.8
NORMARC 25 (AUSTIN)	3.7	4.0	3.8
WRANGLER	3.7	4.0	3.8
BEL 86-2	3.3	4.0	3.7
PST-5F2 (WINCHESTER)	4.0	3.3	3.7
TRAILBLAZER	3.3	4.0	3.7
PST-5D1 (ELDORADO)	3.7	3.7	3.7
APACHE	3.3	3.7	3.5
CAREFREE	3.0	4.0	3.5
FALCON	3.3	3.7	3.5
PACER	3.0	4.0	3.5
PE-7	3.0	4.0	3.5
PST-5MW (SAFARI)	3.3	3.7	3.5
PST-5OL (OLYMPIC II)	3.3	3.7	3.5
REBEL II	3.3	3.7	3.5
THOROUGHbred	3.3	3.7	3.5
CIMMARON	3.3	3.3	3.3
NORMARC 77 (PHOENIX)	3.3	3.3	3.3
PE-7E (SHENANDOAH)	3.3	3.3	3.3
PICK GH6 (MAVERICK II)	3.3	3.3	3.3
FINELAWN 5GL	4.0	2.7	3.3
PICK TF9 (CROSSFIRE)	3.0	3.7	3.3
TRIDENT	3.7	3.0	3.3
CHIEFTAIN	3.3	3.0	3.2
FINELAWN I	2.3	4.0	3.2
PICK SLD (EMPEROR)	3.3	3.0	3.2
PST-5AP	3.0	3.3	3.2
PST-5BL (SILVERADO)	3.3	3.0	3.2
PST-5HF (AMIGO)	3.3	3.0	3.2
SYN GA (AQUARA)	3.0	3.3	3.2
TRIBUTE	3.0	3.3	3.2
OLYMPIC	2.7	3.7	3.2
PICK 845PN (GUARDIAN)	2.7	3.7	3.2

LEAFSPOT RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

LEAFSPOT RATINGS 1-9; 9=NO DISEASE

NAME	TX1	TX2	MEAN
PST-DBC (TRADITION)	2.7	3.7	3.2
TAURUS	3.7	2.7	3.2
TIP	2.7	3.7	3.2
BONANZA	3.0	3.0	3.0
KY-31	3.3	2.7	3.0
MONARCH	3.0	3.0	3.0
PICK DDF (SHORTSTOP)	2.3	3.7	3.0
PST-5DM (ARRIBA)	3.3	2.7	3.0
PST-5EN	3.0	3.0	3.0
SUNDANCE	3.3	2.7	3.0
BEL 86-1	2.3	3.3	2.8
KWS-BG-6 (TWILIGHT)	2.3	3.3	2.8
TITAN	2.3	3.3	2.8
PST-5D7 (MURIETTA)	2.7	3.0	2.8
RICHMOND	2.7	3.0	2.8
MESA	2.3	3.0	2.7
WILLAMETTE	3.3	2.0	2.7
NORMARC 99 (VEGAS)	2.7	2.7	2.7
FATIMA	2.0	3.0	2.5
PICK 127 (COCHISE)	2.3	2.7	2.5
LSL VALUE	1.2	1.1	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 16. DOLLAR SPOT RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 1/

NAME	OH2	MEAN
HUBBARD 87	6.7	6.7
MESA	6.7	6.7
CHIEFTAIN	6.3	6.3
FALCON	6.3	6.3
FATIMA	6.3	6.3
FINELAWN 5GL	6.3	6.3
JAGUAR	6.3	6.3
JAGUAR II	6.3	6.3
PE-7	6.3	6.3
PICK 845PN (GUARDIAN)	6.3	6.3
PICK DDF (SHORTSTOP)	6.3	6.3
PICK TF9 (CROSSFIRE)	6.3	6.3
PST-5AP	6.3	6.3
PST-5BL (SILVERADO)	6.3	6.3
PST-5DM (ARRIBA)	6.3	6.3
PST-5EN	6.3	6.3
PST-5F2 (WINCHESTER)	6.3	6.3
REBEL	6.3	6.3
SYN GA (AQUARA)	6.3	6.3
THOROUGHbred	6.3	6.3
ADVENTURE	6.0	6.0
CIMMARON	6.0	6.0
KWS-DUR	6.0	6.0
KY-31	6.0	6.0
PICK 127 (COCHISE)	6.0	6.0
REBEL II	6.0	6.0
TITAN	6.0	6.0
WRANGLER	6.0	6.0
APACHE	5.7	5.7
ARID	5.7	5.7
AZTEC	5.7	5.7
BEL 86-1	5.7	5.7
BEL 86-2	5.7	5.7
BONANZA	5.7	5.7
NORMARC 77 (PHOENIX)	5.7	5.7
PICK GH6 (MAVERICK II)	5.7	5.7
PICK SLD (EMPEROR)	5.7	5.7
PST-5AG	5.7	5.7
PST-5OL (OLYMPIC II)	5.7	5.7
PST-DBC (TRADITION)	5.7	5.7
RICHMOND	5.7	5.7
TRIBUTE	5.7	5.7
BAR FA 7851 (BARNONE)	5.3	5.3
CAREFREE	5.3	5.3
LEGEND (BRAHMA)	5.3	5.3

DOLLAR SPOT RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE

NAME	OH2	MEAN
NORMARC 25 (AUSTIN)	5.3	5.3
OLYMPIC	5.3	5.3
PACER	5.3	5.3
PE-7E (SHENANDOAH)	5.3	5.3
PICK DM (AVANTI)	5.3	5.3
PST-5MW (SAFARI)	5.3	5.3
TIP	5.3	5.3
TRAILBLAZER	5.3	5.3
TRIDENT	5.3	5.3
JB-2	5.0	5.0
MONARCH	5.0	5.0
NORMARC 99 (VEGAS)	5.0	5.0
PST-5D1 (ELDORADO)	5.0	5.0
SUNDANCE	5.0	5.0
TAURUS	5.0	5.0
FINELAWN I	4.7	4.7
PST-5HF (AMIGO)	4.7	4.7
WILLAMETTE	4.7	4.7
PST-5D7 (MURIETTA)	4.3	4.3
KWS-BG-6 (TWILIGHT)	4.0	4.0
LSD VALUE	1.3	1.3

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 17. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	AR1	AZ1	GA1	NJ1	NJ3	OH2	UB1	VA3	MEAN
FALCON	6.0	8.0	8.7	6.0	5.7	6.3	8.0	8.7	7.2
PST-5F2 (WINCHESTER)	5.7	8.0	8.3	5.0	5.7	6.7	7.7	9.0	7.0
REBEL II	7.3	7.3	7.7	5.0	6.0	6.0	8.0	8.7	7.0
ARID	7.7	6.7	8.0	6.3	4.7	6.0	7.3	9.0	7.0
ADVENTURE	5.0	7.3	8.7	6.0	5.7	6.0	8.0	9.0	7.0
REBEL	5.7	7.5	7.3	4.3	6.3	6.0	8.7	9.0	6.9
TITAN	5.0	8.0	8.3	3.3	6.7	7.3	7.0	9.0	6.8
BAR FA 7851 (BARNONE)	6.0	7.7	8.7	4.3	6.0	6.7	6.7	8.7	6.8
PST-5EN	6.3	8.0	8.5	4.0	6.0	5.7	7.0	9.0	6.8
APACHE	6.7	7.7	8.3	3.3	5.7	6.0	7.7	9.0	6.8
THOROUGHbred	5.7	6.7	8.0	5.3	4.0	6.7	9.0	8.7	6.8
PACER	6.0	8.0	8.0	3.0	5.7	6.0	8.0	9.0	6.7
TRIBUTE	5.3	6.7	8.7	3.7	5.7	6.3	8.3	9.0	6.7
PICK 127 (COCHISE)	6.3	7.0	8.7	4.3	6.0	5.7	7.0	8.7	6.7
MONARCH	6.0	7.0	8.3	4.3	6.0	5.3	7.3	9.0	6.7
FINELAWN I	5.7	8.0	7.3	3.7	5.0	6.0	8.3	9.0	6.6
PICK TF9 (CROSSFIRE)	5.3	7.3	8.7	3.7	5.0	6.3	7.7	9.0	6.6
PST-DBC (TRADITION)	6.0	7.0	8.3	3.3	5.7	6.3	7.7	8.7	6.6
PST-5AP	5.7	7.7	7.5	4.0	6.0	6.0	7.3	8.7	6.6
PST-5DM (ARRIBA)	4.3	7.5	8.7	4.3	5.7	6.0	8.0	8.0	6.6
PE-7	5.0	7.7	8.0	4.3	6.3	6.0	6.0	9.0	6.5
PST-5OL (OLYMPIC II)	6.0	7.3	8.0	3.0	5.3	5.7	8.0	9.0	6.5
PICK DM (AVANTI)	4.3	7.5	8.7	4.7	5.7	6.3	6.3	8.7	6.5
BEL 86-2	6.7	6.5	8.0	4.0	5.3	4.7	8.0	9.0	6.5
MESA	6.0	7.0	7.5	3.0	5.3	6.3	8.3	8.7	6.5
KY-31	4.3	7.7	6.0	5.7	5.3	6.0	8.0	9.0	6.5
PICK 845PN (GUARDIAN)	6.3	6.3	8.0	5.3	6.7	4.7	6.3	8.3	6.5
RICHMOND	4.3	7.3	8.0	4.3	5.3	5.7	8.3	8.7	6.5
BONANZA	6.7	7.0	7.0	4.0	5.3	5.7	7.0	9.0	6.5
JAGUAR	5.3	7.0	8.3	3.7	5.3	6.0	7.3	8.7	6.5
NORMARC 99 (VEGAS)	6.0	6.0	7.3	4.7	6.0	5.3	7.7	8.7	6.5
OLYMPIC	6.0	7.3	8.0	3.0	5.3	5.7	7.3	9.0	6.5
TRIDENT	5.3	7.3	7.7	4.3	5.7	6.0	6.7	8.7	6.5
FATIMA	4.7	7.3	7.0	4.3	6.0	5.7	7.3	9.0	6.4
PST-5BL (SILVERADO)	4.3	6.7	8.0	5.3	6.7	6.0	6.0	8.3	6.4
PICK GH6 (MAVERICK II)	4.7	7.7	7.7	3.7	5.3	6.0	7.7	8.7	6.4
TIP	4.7	7.7	7.7	3.3	5.3	6.0	8.0	8.7	6.4
CHIEFTAIN	4.7	5.7	8.0	4.3	6.3	6.0	7.3	8.7	6.4
NORMARC 77 (PHOENIX)	4.0	7.0	8.0	3.7	5.7	5.7	8.0	9.0	6.4
FINELAWN 5GL	5.3	7.3	8.0	3.0	4.0	5.7	8.7	9.0	6.4
CIMMARON	5.0	7.3	7.7	4.3	5.0	5.7	6.7	9.0	6.3
JAGUAR II	4.7	6.7	7.7	4.3	5.3	5.0	8.3	8.3	6.3
PICK DDF (SHORTSTOP)	5.7	8.0	8.0	2.7	6.0	5.7	6.3	8.0	6.3
SYN GA (AQUARA)	5.7	7.3	7.7	3.3	4.7	5.7	7.0	9.0	6.3
SUNDANCE	4.3	7.3	6.7	5.0	6.3	5.3	6.0	9.0	6.3

TABLE 17.  
(continued)

BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

NAME	BROWN PATCH RATINGS 1-9; 9=NO DISEASE								MEAN
	AR1	AZ1	GA1	NJ1	NJ3	OH2	UB1	VA3	
KWS-DUR	4.7	7.7	8.3	3.3	6.0	6.3	5.0	8.3	6.2
PST-5D1 (ELDORADO)	4.0	7.0	6.3	5.3	5.7	5.7	6.7	9.0	6.2
WRANGLER	5.3	7.0	7.5	3.3	5.7	6.0	6.0	8.7	6.2
NORMARC 25 (AUSTIN)	4.7	7.3	7.7	3.7	5.7	5.3	6.3	8.7	6.2
PICK SLD (EMPEROR)	3.3	7.7	8.0	4.7	5.3	6.3	5.0	9.0	6.2
PST-5HF (AMIGO)	5.7	6.0	8.0	2.7	5.7	5.7	7.0	8.7	6.2
JB-2	4.3	7.3	8.3	3.7	4.7	5.3	6.7	8.7	6.1
PST-5MW (SAFARI)	4.7	7.3	7.7	4.0	5.3	5.3	5.7	9.0	6.1
HUBBARD 87	5.3	6.7	8.5	3.7	4.7	6.0	4.7	8.3	6.0
PE-7E (SHENANDOAH)	5.0	6.7	7.0	3.3	6.0	5.7	5.0	9.0	6.0
TAURUS	5.3	6.7	6.3	4.3	5.0	6.0	5.3	8.7	6.0
CAREFREE	3.7	7.3	7.7	2.7	4.7	6.0	6.0	9.0	5.9
WILLAMETTE	4.7	7.3	7.0	3.3	5.3	5.0	6.0	8.3	5.9
PST-5AG	5.7	6.7	7.3	3.0	5.3	5.3	5.3	8.0	5.8
BEL 86-1	3.3	7.5	6.3	3.3	5.3	5.7	6.7	8.3	5.8
AZTEC	3.3	7.0	6.7	3.3	6.3	5.7	5.0	8.7	5.8
LEGEND (BRAHMA)	4.3	7.0	7.0	4.3	5.0	5.0	3.7	8.3	5.6
PST-5D7 (MURIETTA)	4.0	7.7	8.0	1.7	5.3	4.0	3.3	8.0	5.3
KWS-BG-6 (TWILIGHT)	4.7	6.7	6.0	3.0	5.7	5.3	1.0	8.3	5.1
TRAILBLAZER	4.3	7.7	6.3	2.3	5.0	3.3	2.0	8.7	5.0
LSD VALUE	2.2	1.4	1.8	1.9	1.6	1.8	2.9	0.8	0.7

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

TABLE 18. PYTHIUM RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

NAME	PYTHIUM RATINGS 1-9; 9=NO DISEASE 1/		
	GA1	NJ3	MEAN
NORMARC 25 (AUSTIN)	7.7	6.7	7.2
PST-5OL (OLYMPIC II)	7.7	6.7	7.2
TAURUS	.	7.0	7.0
TITAN	7.7	6.3	7.0
TRIDENT	7.0	6.7	6.8
WILLAMETTE	7.7	6.0	6.8
CHIEFTAIN	7.3	6.3	6.8
NORMARC 77 (PHOENIX)	.	6.7	6.7
BAR FA 7851 (BARNONE)	8.0	5.3	6.7
FATIMA	7.0	6.3	6.7
KWS-DUR	8.0	5.3	6.7
SUNDANCE	7.0	6.3	6.7
FALCON	7.3	5.7	6.5
FINELAWN I	8.0	5.0	6.5
PICK GH6 (MAVERICK II)	7.3	5.7	6.5
CIMMARON	7.0	5.7	6.3
PE-7E (SHENANDOAH)	7.0	5.7	6.3
PST-5DM (ARRIBA)	7.7	5.0	6.3
PST-5EN	7.0	5.7	6.3
ADVENTURE	7.3	5.3	6.3
PICK SLD (EMPEROR)	7.3	5.3	6.3
TRIBUTE	7.3	5.0	6.2
KWS-BG-6 (TWILIGHT)	.	6.0	6.0
MONARCH	7.7	4.3	6.0
PST-5MW (SAFARI)	6.7	5.3	6.0
RICHMOND	7.0	5.0	6.0
JAGUAR	7.0	4.7	5.8
JAGUAR II	7.7	4.0	5.8
PICK 127 (COCHISE)	6.0	5.7	5.8
APACHE	6.3	5.3	5.8
BEL 86-2	7.3	4.3	5.8
PE-7	7.3	4.3	5.8
PST-5AG	6.3	5.3	5.8
AZTEC	.	5.7	5.7
FINELAWN 5GL	5.7	5.7	5.7
PST-5BL (SILVERADO)	.	5.7	5.7
WRANGLER	.	5.7	5.7
OLYMPIC	6.0	5.3	5.7
PST-5HF (AMIGO)	6.3	5.0	5.7
REBEL	6.3	5.0	5.7
REBEL II	7.0	4.3	5.7
LEGEND (BRAHMA)	5.3	5.7	5.5
PACER	7.0	4.0	5.5
PST-DEC (TRADITION)	5.7	5.3	5.5
SYN GA (AQUARA)	6.3	4.7	5.5

PYTHIUM RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

PYTHIUM RATINGS 1-9; 9=NO DISEASE

NAME	GA1	NJ3	MEAN
JB-2	.	5.3	5.3
PICK DM (AVANTI)	7.0	3.7	5.3
PICK TF9 (CROSSFIRE)	.	5.3	5.3
PST-5D1 (ELDORADO)	.	5.3	5.3
PST-5D7 (MURIETTA)	.	5.3	5.3
PST-5F2 (WINCHESTER)	.	5.3	5.3
THOROUGHbred	.	5.3	5.3
TIP	.	5.3	5.3
ARID	.	5.0	5.0
NORMARC 99 (VEGAS)	.	5.0	5.0
PICK 845PN (GUARDIAN)	.	5.0	5.0
PICK DDF (SHORTSTOP)	.	5.0	5.0
PST-5AP	.	5.0	5.0
HUBBARD 87	.	4.7	4.7
MESA	.	4.7	4.7
TRAILBLAZER	.	4.7	4.7
KY-31	.	4.3	4.3
CAREFREE	4.7	3.7	4.2
BEL 86-1	.	4.0	4.0
BONANZA	.	4.0	4.0
LSD VALUE	2.2	2.3	1.9

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 19. APHID RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

APHID RATINGS 1-9; 9=NO DAMAGE 1/			
NAME	TX1	TX2	MEAN
TRIBUTE	7.3	6.3	6.8
KY-31	7.7	5.0	6.3
PE-7E (SHENANDOAH)	8.3	4.3	6.3
PST-5F2 (WINCHESTER)	8.0	4.3	6.2
ARID	7.3	4.7	6.0
MESA	6.0	5.7	5.8
PST-DBC (TRADITION)	6.3	5.3	5.8
NORMARC 99 (VEGAS)	7.0	4.3	5.7
BEL 86-2	6.3	4.7	5.5
PST-5AP	6.7	4.3	5.5
PACER	6.0	4.7	5.3
PST-5AG	6.0	4.7	5.3
WILLAMETTE	5.3	5.3	5.3
APACHE	5.3	5.0	5.2
PICK 845PN (GUARDIAN)	5.3	4.7	5.0
PST-5DM (ARRIBA)	6.3	3.7	5.0
PST-5OL (OLYMPIC II)	6.0	4.0	5.0
REBEL	4.3	5.7	5.0
FINELAWN 5GL	4.0	5.7	4.8
PST-5D7 (MURIETTA)	5.3	4.3	4.8
JAGUAR II	5.0	4.3	4.7
PST-5HF (AMIGO)	4.0	5.3	4.7
TAURUS	5.3	4.0	4.7
MONARCH	4.7	4.3	4.5
PICK DM (AVANTI)	5.0	4.0	4.5
PICK SLD (EMPEROR)	5.0	4.0	4.5
HUBBARD 87	2.7	6.0	4.3
PICK DDF (SHORTSTOP)	5.0	3.7	4.3
SYN GA (AQUARA)	3.7	5.0	4.3
THOROUGHBRED	3.7	5.0	4.3
TRIDENT	4.3	4.3	4.3
LEGEND (BRAHMA)	3.3	5.0	4.2
PICK 127 (COCHISE)	4.7	3.7	4.2
KWS-DUR	4.3	4.0	4.2
OLYMPIC	4.3	4.0	4.2
ADVENTURE	4.3	3.7	4.0
BAR FA 7851 (BARNONE)	3.7	4.3	4.0
JAGUAR	4.0	4.0	4.0
AZTEC	3.0	4.7	3.8
RICHMOND	3.0	4.7	3.8
BEL 86-1	2.3	5.3	3.8
FATIMA	4.0	3.7	3.8
NORMARC 77 (PHOENIX)	4.0	3.7	3.8
PICK GH6 (MAVERICK II)	2.7	5.0	3.8
PST-5MW (SAFARI)	3.3	4.3	3.8

APHID RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

APHID RATINGS 1-9; 9=NO DAMAGE

NAME	TX1	TX2	MEAN
TITAN	2.7	5.0	3.8
FINELAWN I	4.0	3.3	3.7
PST-5BL (SILVERADO)	3.0	4.3	3.7
TRAILBLAZER	3.0	4.3	3.7
BONANZA	4.0	3.0	3.5
CAREFREE	3.7	3.3	3.5
PICK TF9 (CROSSFIRE)	3.0	4.0	3.5
WRANGLER	3.0	4.0	3.5
PST-5D1 (ELDORADO)	3.0	3.7	3.3
REBEL II	3.0	3.7	3.3
NORMARC 25 (AUSTIN)	2.3	4.0	3.2
PST-5EN	2.3	4.0	3.2
TIP	3.3	3.0	3.2
SUNDANCE	1.7	4.0	2.8
CHIEFTAIN	2.0	3.7	2.8
PE-7	2.0	3.3	2.7
CIMMARON	1.3	4.0	2.7
KWS-BG-6 (TWILIGHT)	2.0	3.0	2.5
FALCON	1.3	3.3	2.3
JB-2	1.0	3.7	2.3
LSL VALUE	4.4	2.9	2.6

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 20. VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

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

NAME	OH2	MEAN
PST-5D1 (ELDORADO)	8.0	8.0
PST-5HF (AMIGO)	7.7	7.7
AZTEC	7.3	7.3
APACHE	7.0	7.0
BEL 86-2	7.0	7.0
JAGUAR II	7.0	7.0
LEGEND (BRAHMA)	7.0	7.0
NORMARC 99 (VEGAS)	7.0	7.0
PICK 845FN (GUARDIAN)	7.0	7.0
PICK DM (AVANTI)	7.0	7.0
PICK GH6 (MAVERICK II)	7.0	7.0
PST-5AP	7.0	7.0
PST-5D7 (MURIETTA)	7.0	7.0
TRAILBLAZER	7.0	7.0
KWS-BG-6 (TWILIGHT)	6.7	6.7
MONARCH	6.7	6.7
PE-7E (SHENANDOAH)	6.7	6.7
PICK DDF (SHORTSTOP)	6.7	6.7
PICK TF9 (CROSSFIRE)	6.7	6.7
PST-5AG	6.7	6.7
PST-5BL (SILVERADO)	6.7	6.7
TRIDENT	6.7	6.7
BAR FA 7851 (BARNONE)	6.3	6.3
CHIEFTAIN	6.3	6.3
HUBBARD 87	6.3	6.3
MESA	6.3	6.3
NORMARC 25 (AUSTIN)	6.3	6.3
PICK 127 (COCHISE)	6.3	6.3
PST-5EN	6.3	6.3
PST-5MW (SAFARI)	6.3	6.3
REBEL II	6.3	6.3
THOROUGHBRED	6.3	6.3
ARID	6.0	6.0
BONANZA	6.0	6.0
KWS-DUR	6.0	6.0
PACER	6.0	6.0
PE-7	6.0	6.0
PICK SLD (EMPEROR)	6.0	6.0
PST-5DM (ARRIBA)	6.0	6.0
PST-5OL (OLYMPIC II)	6.0	6.0
SUNDANCE	6.0	6.0
WRANGLER	6.0	6.0
ADVENTURE	5.7	5.7
BEL 86-1	5.7	5.7
CIMMARON	5.7	5.7

VERTICAL GROWTH RATINGS OF TALL FESCUE CULTIVARS  
1990 DATA

VERTICAL GROWTH RATINGS 1-9; 9=LEAST

NAME	OH2	MEAN
FALCON	5.7	5.7
FINELAWN I	5.7	5.7
JAGUAR	5.7	5.7
JB-2	5.7	5.7
OLYMPIC	5.7	5.7
PST-5F2 (WINCHESTER)	5.7	5.7
SYN GA (AQUARA)	5.7	5.7
TAURUS	5.7	5.7
TRIBUTE	5.7	5.7
WILLAMETTE	5.7	5.7
CAREFREE	5.3	5.3
FINELAWN 5GL	5.3	5.3
REBEL	5.3	5.3
NORMARC 77 (PHOENIX)	5.0	5.0
PST-DBC (TRADITION)	5.0	5.0
TITAN	5.0	5.0
RICHMOND	4.7	4.7
FATIMA	4.3	4.3
TIP	4.0	4.0
KY-31	3.3	3.3
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 OCCR WHEN THIS VALUE IS LARGER  
THAN THE CORRESPONDING LSD VALUE (LSD 0.05).