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 Commmittees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, a national coordinator, and a technical 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 coordinator 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.

National Coordinator - Jack Murray, USDA-ARS, Beltsville, MD

Technical Coordinator - Kevin Morris, Maryland Turfgrass Council

POLICY COMMITTEE MEMBERS

Dr. Reed Funk, Rutgers University
Dr. Don White, University of Minnesota
Dr. Milt Engelke, Texas A & M University
Dr. Terry Riordan, University of Nebraska
Mr. Mike Robinson, Seed Research of Oregon, Inc.

FOR ADDITIONAL REPORTS OR INFORMATION WRITE:

Kevin Morris, Technical Coordinator
National Turfgrass Evaluation Program
Beltsville Agricultural Research Center-West
Building 001, Room 333
Beltsville, Maryland 20705

CONTENTS

1983 National Tall Fescue Test - 1987 data

LOCATIONS SUBMITTING DATA FOR 1987

State	Location	Code
California	Riverside	CA3
Colorado	Fort Collins	CO1
Georgia	Experiment	GA1
Idaho	Moscow	ID1
Kansas	Wichita	KS2
Kentucky	Lexington	KY1
Maryland	Beltsville	UB1
Maryland	Silver Spring	MD1
Massachusetts	Amherst	MA1
Missouri	Mt. Vernon	MO2
Mississippi	Mississippi State	MS1
Nebraska	Lincoln (high maintenance)	NE1
Nebraska	Lincoln (low maintenance)	NE2
New Jersey	Adelphia	NJ1
New Jersey	Adelphia	NJ2
New York	Ithaca	NY1
New York	Riverhead, Long Island	NY2
North Carolina	Raleigh	NC1
North Carolina	Asheville	NC3
Oregon	Hubbard	OR1
Oregon	Corvallis	OR2
Rhode Island	Kingston	RI1
Texas	Dallas (non-irrigated, full sun)	TX1
Texas	Dallas (non-irrigated, shade)	TX2
Texas	Dallas (irrigated, full sun)	TX3
Virginia	Blacksburg	VA1
Virginia	Blackstone	VA2
Virginia	Norton	VA4
Virginia	Virginia Beach	VA5
Washington	Pullman	WA1
Washington	Puyallup	WA3

NATIONAL TALL FESCUE TEST, 1983

Entries and Sponsors

Entry No.	Name	Sponsor
1	Johnstone	Kentucky For Progress Coop
2	Rebel	Loft's Seed Co.
3	Clemfine	Loft's Seed Co.
4	Willamette	Willamette Seed & Grain
5	Mer Fa 83-1	Barenbrug Breeding
6	ISI.CJ (Pacer)	International Seeds
7	Houndog	International Seeds
8	Brookston	International Seeds
9	Falcon	E. F. Burlingham & Sons
10	Maverick	Pickseed West, Inc.
11	Mustang	Pickseed West, Inc.
12	Adventure	Warren's Turf Nursery
13	TF 813 (Trident)	International Seeds
14	Olympic	Turf-Seed, Inc.
15	Jaguar	Garfield Williamson
16	5GL	Pure-Seed Testing
17	Apache	Turf-Seed, Inc.
18	5L4 (Bonanza)	Turf-Seed, Inc.
19	Finelawn I	Turf-Seed, Inc.
20	Kenhy	Bob Buckner-Univ. of Ky.
21	Ky-31	Bob Buckner-Univ. of Ky.
22	Syn-Ga-1	O. M. Scott & Sons
23	KS 78-4 (Chesapeake)	O. M. Scott & Sons
24	Arid	Jacklin Seed Co.
25	NK 81425	Northrup King Co.
26	NK 82508	Northrup King Co.
27	Tempo	Ag. Service Corp.
28	Barcel	Jacklin Seed Co.
29	Festorina	Van der have-Oregon
30	Unknown	-

TABLE A.
1987 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES
IN THE 1983 NATIONAL TALL FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)
AR1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240
AR2	SILT LOAM AND SILT	6.1-6.5	61-150	151-240
CA3	SANDY LOAM	6.6-7.0	-	-
KY1	SILT LOAM AND SILT	5.6-6.0	271-450	376-500
MA1	SILT LOAM AND SILT	-	-	-
MD1	SANDY LOAM	6.1-6.5	0-60	0-150
MO2	SILTY CLAY LOAM	6.1-6.5	0-60	151-240
MS1	SANDY CLAY LOAM	6.6-7.0	151-270	151-240
NE1	SILTY CLAY LOAM	6.6-7.0	0-60	151-240
NE2	SILTY CLAY LOAM	6.6-7.0	0-60	151-240
NJ1	SANDY LOAM	6.6-7.0	61-150	151-240
OH1	SILTY CLAY LOAM	6.6-7.0	0-60	0-150
OR1	SILT LOAM AND SILT	4.6-5.5	151-270	241-375
OR2	SILT LOAM AND SILT	5.6-6.0	-	-
RI1	SILT LOAM AND SILT	6.1-6.5	271-450	241-375
UB1	SILT LOAM AND SILT	5.6-6.0	271-450	151-240
VA1	SANDY CLAY LOAM	4.6-5.5	61-150	0-150
VA4	-	4.6-5.5	0-60	151-240
WA1	SILT LOAM AND SILT	6.6-7.0	0-60	0-150

LOCATION	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
AR1	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
AR2	2.1-3.0	PARTIAL SHADE	2.1-2.5	TO PREVENT STRESS
CA3	5.1-6.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
KY1	2.1-3.0	FULL SUN	1.1-1.5	NO IRRIGATION
MA1	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
MD1	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
MO2	1.1-2.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
MS1	2.1-3.0	FULL SUN	3.1-3.5	NO IRRIGATION
NE1	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NE2	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NJ1	4.1-5.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY
OH1	0.0-1.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
OR1	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
OR2	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
RI1	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
UB1	1.1-2.0	FULL SUN	2.1-2.5	NO IRRIGATION
VA1	0.0-1.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
VA4	2.1-3.0	FULL SUN	2.6-3.0	NO IRRIGATION
WA1	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 1987

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING
AR1				X	X	X
AR2				X	X	X
CA3		X	X	X		
KY1			X	X	X	X
MA1				X	X	X
MD1				X	X	
MO2			X	X	X	X
MS1	X	X	X	X	X	X
NE1					X	X
NE2					X	X
NJ1				X	X	
OH1					X	X
OR1	X	X	X	X	X	
OR2			X	X	X	X
RI1				X		
UB1				X	X	X
VA1			X	X	X	X
VA4				X	X	X
WA1						

LOCATION	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING
AR1	X	X	X			
AR2	X	X	X			
CA3		X	X			
KY1	X	X	X			
MA1			X			
MD1	X	X		X		
MO2	X	X	X	X	X	
MS1	X	X	X	X	X	X
NE1	X	X	X			
NE2			X			
NJ1	X	X	X	X	X	X
OH1			X			
OR1	X	X	X	X	X	X
OR2	X	X	X	X		
RI1				X	X	
UB1				X	X	
VA1	X	X	X	X		
VA4	X		X	X		
WA1	X					

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES 1987 DATA

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

NAME	AR1	AR2	CA3	KY1	MA1	MD1	MO2	MS1	NE1	NE2
* ARID	5.0	4.9	6.5	6.9	4.5	7.0	6.3	5.0	7.1	7.0
* JAGUAR	5.6	4.9	6.5	6.5	4.6	7.2	4.6	4.6	7.7	7.1
* APACHE	6.3	5.3	6.2	7.0	4.7	6.2	5.5	5.1	7.0	6.3
* 5L4 (BONANZA)	5.6	4.2	6.3	6.3	4.9	7.4	5.3	4.6	6.9	5.9
* REBEL	6.1	4.6	6.5	6.4	4.8	7.2	5.5	4.3	7.5	6.7
* MUSTANG	6.1	5.7	6.6	6.5	4.7	7.4	4.9	4.3	6.9	6.6
* ADVENTURE	5.4	4.0	6.5	6.4	4.8	7.5	5.3	4.5	7.3	6.8
* OLYMPIC	5.7	4.8	6.4	6.3	4.6	7.1	6.0	4.4	6.8	6.2
* FINELAWN 5GL	4.8	4.2	6.2	6.9	4.3	7.3	6.3	4.3	7.0	6.7
UNKNOWN	4.9	4.7	6.3	6.7	4.8	7.3	5.6	4.8	7.4	5.8
* TF 813 (TRIDENT)	5.7	4.8	6.3	6.1	4.7	7.5	5.0	4.5	7.1	6.8
* HOUNDOG	5.3	5.2	6.2	6.2	4.6	7.3	5.0	4.5	6.9	6.0
SYN-GA-1	5.2	3.2	6.3	6.2	4.6	6.8	5.4	4.2	6.5	6.4
* FALCON	6.1	4.2	6.1	6.1	4.6	5.9	5.6	4.4	6.5	5.9
* MAVERICK	6.6	4.3	6.2	6.1	4.5	6.1	5.7	4.5	6.3	6.2
* WILLAMETTE	6.8	5.3	6.1	6.4	4.5	7.0	5.0	4.0	6.3	6.0
* ISI.CJ (PACER)	6.2	4.6	5.9	6.3	4.5	6.4	5.1	4.2	6.2	6.2
* TEMPO	4.6	5.0	5.9	6.3	4.3	7.5	5.6	4.2	6.1	6.1
* FINELAWN I	5.4	3.9	5.9	6.2	4.6	6.6	6.1	4.2	5.9	5.7
* BROOKSTON	5.7	5.0	6.2	6.0	4.5	5.7	5.9	3.9	6.3	6.3
* CLEMFINE	5.9	4.7	5.4	6.0	4.3	6.1	5.9	4.7	4.7	5.8
MER FA 83-1	6.3	4.9	5.3	5.6	4.3	6.3	5.7	4.4	5.3	5.3
* KS 78-4 (CHESAPEAKE)	6.3	5.1	5.3	5.2	4.1	6.7	5.8	4.2	5.1	5.3
* BARCEL	5.3	5.0	5.4	5.5	4.3	6.2	5.8	3.5	5.3	5.6
NK 82508	4.2	4.4	5.7	6.2	4.6	5.1	3.9	3.5	5.5	5.8
* KY-31	6.2	5.5	4.8	5.0	4.2	5.9	5.4	3.9	4.9	5.0
* JOHNSTONE	5.0	5.4	5.2	4.6	4.4	5.8	4.8	4.3	5.0	5.3
NK 81425	5.8	4.9	5.0	5.0	4.0	5.6	5.5	4.1	4.7	5.0
FESTORINA	5.3	3.8	4.9	5.4	4.2	6.5	5.3	3.4	4.7	5.2
* KENHY	5.1	4.8	.	3.5	4.5	6.2	5.3	2.8	3.3	4.8
LSD VALUE	1.2	1.3	0.5	0.6	0.4	1.1	0.9	0.7	0.8	0.9

* COMMERCIALLY AVAILABLE VARIETY

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS
(CONT'D) AT NINETEEN LOCATIONS IN THE UNITED STATES
1987 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	NJ1	OH1	OR1	OR2	RI1	UB1	VA1	VA4	WA1	MEAN
ARID	5.7	7.2	7.2	6.3	4.3	6.7	5.3	3.8	5.7	5.9
JAGUAR	5.7	6.8	7.7	7.0	4.3	6.5	5.4	3.4	6.3	5.9
APACHE	5.6	7.3	6.9	5.5	4.6	7.1	5.0	3.7	5.3	5.8
5L4 (BONANZA)	6.2	7.3	7.3	6.1	4.0	7.1	5.5	3.9	5.7	5.8
REBEL	5.2	6.8	6.7	5.4	4.9	6.3	5.4	3.7	6.3	5.8
MUSTANG	5.7	6.6	6.2	6.0	4.4	6.6	4.7	3.3	6.0	5.7
ADVENTURE	5.3	6.3	7.0	5.8	5.0	6.3	5.3	3.3	6.3	5.7
OLYMPIC	5.1	6.7	7.0	5.5	4.6	6.8	4.9	3.4	6.0	5.7
FINELAWN 5GL	5.7	6.8	6.8	5.9	4.0	6.5	5.2	3.4	6.0	5.7
UNKNOWN	5.3	6.7	6.2	5.4	4.2	6.1	5.1	3.7	6.3	5.6
TF 813 (TRIDENT)	5.4	6.2	6.2	5.3	4.3	6.1	5.7	3.5	5.7	5.6
HOUNDOG	5.4	6.4	6.1	5.0	3.2	6.4	4.8	3.6	6.3	5.5
SYN-GA-1	5.0	6.8	6.2	5.8	5.2	5.5	4.9	3.6	6.0	5.5
FALCON	4.9	6.7	6.3	5.0	4.6	6.4	4.8	4.4	5.3	5.5
MAVERICK	5.2	6.6	5.7	4.9	3.9	5.5	4.8	3.9	5.7	5.4
WILLAMETTE	5.0	6.4	5.6	5.4	2.7	5.3	4.0	3.9	5.7	5.3
ISI.CJ (PACER)	4.5	6.4	5.8	5.3	4.2	6.1	4.1	3.8	5.3	5.3
TEMPO	4.0	5.9	5.7	5.0	4.0	5.4	4.9	4.1	6.0	5.3
FINELAWN I	4.2	6.3	5.9	4.9	4.2	6.5	4.5	3.7	5.7	5.3
BROOKSTON	4.8	6.2	4.6	5.0	4.0	5.4	3.8	3.2	5.0	5.1
CLEMFINE	3.8	6.2	4.7	4.0	5.1	4.7	4.3	4.1	5.3	5.0
MER FA 83-1	3.2	6.2	4.3	4.1	4.9	4.9	4.0	4.0	4.7	4.9
KS 78-4 (CHESAPEAKE)	3.6	6.4	5.4	3.5	3.7	4.8	4.1	4.0	4.0	4.9
BARCEL	3.0	6.4	4.6	4.7	4.2	4.1	4.0	3.8	5.7	4.9
NK 82508	4.3	6.0	5.9	4.7	3.6	4.3	3.9	3.7	4.7	4.7
KY-31	3.0	6.1	3.7	4.1	3.9	4.9	4.3	3.6	5.0	4.7
JOHNSTONE	3.1	6.0	4.1	3.7	3.6	4.6	3.6	3.5	4.7	4.6
NK 81425	3.7	5.7	4.8	4.0	3.1	4.3	3.0	3.6	4.0	4.5
FESTORINA	2.3	5.8	2.5	3.8	4.7	3.9	3.4	4.9	4.7	4.5
KENHY	2.4	5.6	3.5	2.7	2.9	5.1	.	4.4	4.7	4.2
LSD VALUE	0.8	0.5	0.8	0.7	1.2	0.9	0.8	1.2	1.2	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 NINETEEN LOCATIONS IN THE UNITED STATES 1987 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
ARID	6.8	6.4	6.7	5.8	6.5	6.3	5.8	5.5	5.6	5.6	5.3	5.3	5.9
JAGUAR	6.8	6.7	6.2	5.7	6.3	6.2	5.9	5.6	5.5	5.4	5.3	5.7	5.9
APACHE	6.3	6.3	6.2	5.9	6.2	6.2	5.7	5.4	5.6	5.4	5.4	5.0	5.8
5L4 (BONANZA)	6.7	6.4	6.2	6.0	6.3	6.0	5.7	5.6	5.4	5.5	5.3	5.1	5.8
REBEL	6.2	6.1	6.8	5.6	5.9	5.9	5.6	5.3	5.6	5.3	5.0	5.6	5.8
MUSTANG	5.3	6.0	5.8	5.8	6.1	6.0	5.5	5.6	5.4	5.1	4.9	5.0	5.7
ADVENTURE	6.3	6.6	6.3	5.6	6.0	5.8	5.6	5.3	5.3	5.4	5.1	5.1	5.7
OLYMPIC	6.5	6.4	6.2	5.8	6.1	5.9	5.5	5.2	5.3	5.3	5.4	4.6	5.7
FINELAWN 5GL	6.3	6.3	6.2	5.7	6.0	5.8	5.7	5.5	5.5	5.3	5.1	5.1	5.7
UNKNOWN	6.0	6.2	6.1	5.4	6.1	5.9	5.8	5.2	5.2	5.1	5.0	5.2	5.6
TF 813 (TRIDENT)	6.3	6.1	6.2	5.4	5.8	5.7	5.8	5.4	5.4	5.0	4.6	4.8	5.6
HOUNDOG	5.8	6.2	5.9	5.4	5.7	5.7	5.5	5.3	5.0	5.0	4.6	5.1	5.5
SYN-GA-1	5.8	6.2	6.1	5.3	5.7	5.6	5.3	4.8	5.0	5.0	5.1	5.0	5.5
FALCON	5.8	6.1	6.3	5.4	5.8	5.7	5.3	5.0	5.2	5.0	4.7	4.7	5.5
MAVERICK	5.2	5.6	5.7	5.3	5.8	5.7	5.6	5.1	5.1	4.8	4.3	4.7	5.4
WILLAMETTE	5.2	5.4	5.6	5.4	5.7	5.5	5.5	5.1	5.2	4.4	3.9	5.1	5.3
ISI.CJ (PACER)	5.3	5.8	5.7	5.2	5.8	5.6	5.2	5.2	4.9	4.6	4.4	4.5	5.3
TEMPO	5.8	5.8	6.0	5.2	5.5	5.4	5.4	4.9	5.0	4.7	4.5	4.3	5.3
FINELAWN I	5.3	5.9	5.9	5.3	5.6	5.5	5.3	5.0	4.8	4.7	4.7	4.1	5.3
BROOKSTON	4.5	4.9	5.4	5.2	5.6	5.3	4.9	4.6	5.1	4.2	4.3	4.4	5.1
CLEMFINE	5.5	5.2	5.2	4.9	5.2	5.2	5.0	4.6	4.7	4.5	4.6	4.4	5.0
MER FA 83-1	4.8	5.3	5.3	5.1	5.2	5.1	4.9	4.6	4.5	4.2	3.9	3.8	4.9
KS 78-4 (CHESAPEAKE)	5.5	5.2	5.2	4.9	5.2	5.0	4.9	4.8	4.6	4.4	3.9	3.8	4.9
BARCEL	5.0	4.9	5.1	4.8	5.1	5.0	4.9	4.4	4.5	4.1	3.7	3.6	4.9
NK 82508	5.2	5.4	5.0	4.8	5.1	4.8	4.8	4.5	4.6	3.9	3.6	3.6	4.7
KY-31	4.2	4.3	4.7	4.8	5.2	4.9	4.6	4.3	4.3	4.1	3.5	3.3	4.7
JOHNSTONE	4.7	4.6	4.8	4.7	4.9	4.8	4.3	4.1	4.2	3.9	3.6	3.5	4.6
NK 81425	4.8	4.8	4.6	4.7	4.8	4.9	4.8	4.3	4.3	3.9	3.9	3.7	4.5
FESTORINA	3.7	3.9	4.5	4.4	4.7	4.5	4.6	4.0	4.0	3.6	3.2	2.6	4.5
KENHY	3.5	3.3	3.8	4.4	4.6	4.4	4.0	3.7	3.8	3.6	3.2	2.8	4.2
LSD VALUE	0.9	0.8	0.7	0.6	0.5	0.5	0.6	0.7	0.6	0.7	0.9	1.4	0.4

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

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES 1/
1987 DATA

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

NAME	AR1	AR2	CA3	KY1	MA1	MD1	MO2	MS1	NE1	NE2
ARID	25.5	11.5	3.0	2.5	17.5	12.5	1.0	2.0	5.0	2.0
JAGUAR	16.5	11.5	5.0	6.0	11.0	9.5	29.0	6.0	1.0	1.0
APACHE	3.0	4.0	13.0	1.0	6.0	22.0	14.0	1.0	7.5	9.5
5L4 (BONANZA)	16.5	24.0	10.0	11.5	1.0	4.0	19.0	5.0	10.0	17.5
REBEL	8.5	20.0	3.0	8.5	3.0	9.5	16.0	14.0	2.0	5.5
MUSTANG	8.5	1.0	1.0	5.0	6.0	5.0	27.0	17.0	9.0	7.0
ADVENTURE	18.5	27.0	3.0	8.5	3.0	1.5	21.0	7.0	4.0	3.5
OLYMPIC	13.0	15.5	6.0	11.5	11.0	11.0	4.0	13.0	12.0	11.5
FINELAWN 5GL	28.0	25.5	13.0	2.5	23.5	6.5	2.0	16.0	7.5	5.5
UNKNOWN	27.0	18.5	8.0	4.0	3.0	8.0	11.5	3.0	3.0	20.0
TF 813 (TRIDENT)	14.5	17.0	8.0	19.5	6.0	1.5	25.0	10.0	6.0	3.5
HOUNDOG	21.0	6.0	13.0	16.5	11.0	6.5	25.0	8.0	11.0	15.5
SYN-GA-1	23.0	30.0	8.0	15.0	11.0	14.0	17.0	18.5	13.0	8.0
FALCON	10.0	25.5	16.5	18.0	11.0	25.5	11.5	12.0	14.0	17.5
MAVERICK	2.0	23.0	13.0	19.5	17.5	24.0	9.5	9.0	16.0	11.5
WILLAMETTE	1.0	5.0	16.5	7.0	17.5	12.5	25.0	24.0	16.0	15.5
ISI.CJ (PACER)	7.0	21.0	18.0	11.5	17.5	18.0	23.0	20.0	18.0	13.0
TEMPO	29.0	9.0	19.0	11.5	23.5	3.0	13.0	21.0	19.0	14.0
FINELAWN I	18.5	28.0	20.0	16.5	11.0	16.0	3.0	18.5	20.0	22.0
BROOKSTON	14.5	9.0	13.0	21.0	17.5	28.0	6.0	25.0	16.0	9.5
CLEMFINE	11.0	18.5	22.0	22.0	23.5	23.0	5.0	4.0	27.5	20.0
MER FA 83-1	4.5	13.5	25.0	23.0	23.5	19.0	9.5	11.0	22.0	25.0
KS 78-4 (CHESAPEAKE)	4.5	7.0	24.0	26.0	29.0	15.0	8.0	22.0	24.0	25.0
BARCEL	22.0	9.0	23.0	24.0	26.0	20.5	7.0	27.5	23.0	23.0
NK 82508	30.0	22.0	21.0	14.0	11.0	30.0	30.0	27.5	21.0	20.0
KY-31	6.0	2.0	29.0	27.0	27.5	25.5	18.0	26.0	26.0	28.5
JOHNSTONE	25.5	3.0	26.0	29.0	21.0	27.0	28.0	15.0	25.0	25.0
NK 81425	12.0	13.5	27.0	28.0	30.0	29.0	15.0	23.0	29.0	28.5
FESTORINA	20.0	29.0	28.0	25.0	27.5	17.0	21.0	29.0	27.5	27.0
KENHY	24.0	15.5	.	30.0	17.5	20.5	21.0	30.0	30.0	30.0

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

TABLE 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF TALL FESCUE (CONT'D) CULTIVARS AT NINETEEN LOCATIONS IN THE UNITED STATES 1987 DATA

QUALITY RANKINGS ; 1=HIGHEST MEAN: STATE LOCATIONS REPORTING

NAME	NJ1	OH1	OR1	OR2	RI1	UB1	VA1	VA4	WA1	MEAN
ARID	4.0	3.0	3.0	2.0	12.0	4.0	5.5	12.0	14.0	1
JAGUAR	4.0	6.5	1.0	1.0	12.0	8.0	3.5	26.0	3.0	2
APACHE	6.0	1.5	6.0	8.5	8.0	1.0	9.0	15.0	19.5	3
5L4 (BONANZA)	1.0	1.5	2.0	3.0	18.5	2.0	2.0	10.0	14.0	4
REBEL	11.0	4.5	8.0	10.5	5.0	11.0	3.5	14.0	3.0	5
MUSTANG	2.0	11.0	12.0	4.0	10.0	5.0	16.0	29.0	8.0	6
ADVENTURE	10.0	18.5	4.5	6.0	3.0	12.0	5.5	28.0	3.0	7
OLYMPIC	13.0	9.0	4.5	8.5	9.0	3.0	10.5	25.0	8.0	8
FINELAWN 5GL	4.0	6.5	7.0	5.0	20.5	6.5	7.0	27.0	8.0	9
UNKNOWN	9.0	9.0	10.5	10.5	15.5	13.0	8.0	17.0	3.0	10
TF 813 (TRIDENT)	7.5	20.5	13.0	13.0	12.0	15.0	1.0	23.5	14.0	11
HOUNDOG	7.5	13.0	14.0	15.0	27.0	9.0	13.5	20.5	3.0	12
SYN-GA-1	14.5	4.5	10.5	7.0	1.0	16.0	10.5	20.5	8.0	13
FALCON	16.0	9.0	9.0	17.5	7.0	10.0	13.5	3.0	19.5	14
MAVERICK	12.0	12.0	19.0	19.0	22.5	17.0	15.0	8.0	14.0	15
WILLAMETTE	14.5	15.5	20.0	12.0	30.0	20.0	22.5	9.0	14.0	16
ISI.CJ (PACER)	18.0	15.5	17.0	14.0	15.5	14.0	20.0	13.0	19.5	17
TEMPO	21.0	27.0	18.0	16.0	18.5	18.5	12.0	5.0	8.0	18
FINELAWN I	20.0	18.5	15.0	20.0	15.5	6.5	17.0	17.0	14.0	19
BROOKSTON	17.0	20.5	25.0	17.5	20.5	18.5	26.0	30.0	22.5	20
CLEMFINE	22.0	22.5	23.0	26.0	2.0	25.0	19.0	4.0	19.5	21
MER FA 83-1	25.0	22.5	26.0	23.5	4.0	22.5	24.0	6.5	26.0	22
KS 78-4 (CHESAPEAKE)	24.0	15.5	21.0	29.0	24.0	24.0	21.0	6.5	29.5	23
BARCEL	27.5	15.5	24.0	22.0	15.5	29.0	22.5	11.0	14.0	24
NK 82508	19.0	25.5	16.0	21.0	25.5	27.5	25.0	17.0	26.0	25
KY-31	27.5	24.0	28.0	23.5	22.5	22.5	18.0	19.0	22.5	26
JOHNSTONE	26.0	25.5	27.0	28.0	25.5	26.0	27.0	23.5	26.0	27
NK 81425	23.0	29.0	22.0	25.0	28.0	27.5	29.0	22.0	29.5	28
FESTORINA	30.0	28.0	30.0	27.0	6.0	30.0	28.0	1.0	26.0	29
KENHY	29.0	30.0	29.0	30.0	29.0	21.0	.	2.0	26.0	30

2/ RANKING OF MEAN QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. IF MEANS ARE TIED, THE MEAN OF THE RANKS THEY ARE TIED FOR IS USED. 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
1987 DATA

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

NAME	MO2	VA1	MEAN
ISI.CJ (PACER)	8.0	6.7	7.3
5L4 (BONANZA)	7.0	7.3	7.2
MAVERICK	7.3	7.0	7.2
ARID	7.7	6.3	7.0
KENHY	7.0	.	7.0
FINELAWN I	7.0	6.7	6.8
HOUNDOG	6.3	7.0	6.7
KY-31	7.3	5.7	6.5
BARCEL	6.7	6.0	6.3
FESTORINA	6.7	6.0	6.3
KS 78-4 (CHESAPEAKE)	7.0	5.7	6.3
OLYMPIC	5.7	7.0	6.3
UNKNOWN	5.7	7.0	6.3
TEMPO	6.3	6.3	6.3
APACHE	5.7	6.7	6.2
FINELAWN 5GL	5.7	6.7	6.2
MUSTANG	5.7	6.7	6.2
REBEL	5.7	6.7	6.2
TF 813 (TRIDENT)	5.3	7.0	6.2
NK 82508	5.3	6.7	6.0
JOHNSTONE	7.0	4.7	5.8
ADVENTURE	5.3	6.3	5.8
CLEMFINE	6.3	5.3	5.8
MER FA 83-1	5.7	5.7	5.7
WILLAMETTE	5.7	5.7	5.7
FALCON	5.3	6.0	5.7
BROOKSTON	5.0	6.0	5.5
JAGUAR	4.7	6.3	5.5
SYN-GA-1	5.0	6.0	5.5
NK 81425	5.7	4.0	4.8
LSD VALUE	1.4	0.7	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 5. GENETIC COLOR RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

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

NAME	MD1	MO2	NE1	NE2	OH1	MEAN
5L4 (BONANZA)	6.0	8.7	6.7	6.7	7.7	7.1
TF 813 (TRIDENT)	6.7	7.7	7.0	7.0	7.0	7.1
ADVENTURE	7.3	8.0	7.0	6.0	7.0	7.1
OLYMPIC	6.7	8.0	6.3	6.7	7.3	7.0
JAGUAR	7.0	7.0	6.7	6.7	7.3	6.9
APACHE	6.7	7.0	6.7	6.0	7.7	6.8
FINELAWN 5GL	6.7	8.0	6.3	6.0	6.7	6.7
UNKNOWN	6.3	7.7	7.0	6.3	6.3	6.7
ISI.CJ (PACER)	6.7	8.0	6.0	6.3	6.3	6.7
REBEL	7.3	7.3	6.3	5.7	6.7	6.7
FALCON	6.7	7.7	6.0	6.3	6.3	6.6
ARID	6.3	6.3	6.3	6.7	7.0	6.5
SYN-GA-1	6.0	7.7	6.0	6.3	6.3	6.5
WILLAMETTE	7.0	7.0	6.0	5.7	6.7	6.5
HOUNDOG	6.7	6.7	6.3	6.0	6.3	6.4
MUSTANG	6.7	6.7	6.0	6.3	6.3	6.4
MAVERICK	6.3	6.7	6.3	5.7	6.7	6.3
NK 82508	6.7	7.0	6.0	6.0	6.0	6.3
TEMPO	7.0	6.3	6.0	6.3	6.0	6.3
FINELAWN I	6.0	6.7	5.7	6.0	6.3	6.1
BROOKSTON	6.3	6.0	6.0	6.0	6.3	6.1
BARCEL	6.7	5.7	5.3	5.3	6.0	5.8
MER FA 83-1	6.3	6.3	5.0	5.3	6.0	5.8
FESTORINA	7.0	5.3	5.0	5.7	5.3	5.7
KENHY	6.3	5.7	4.7	5.3	6.0	5.6
KS 78-4 (CHESAPEAKE)	5.7	5.7	5.0	5.3	6.3	5.6
KY-31	6.3	5.7	4.7	5.3	6.0	5.6
JOHNSTONE	6.0	5.3	4.7	5.0	6.3	5.5
CLEMFINE	6.0	5.0	4.7	5.7	5.7	5.4
NK 81425	6.3	4.7	4.3	5.7	6.0	5.4
LSD VALUE	0.8	1.4	0.7	0.8	0.8	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 6. WINTER COLOR RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

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

NAME	RI1	MEAN
CLEMFINE	2.7	2.7
BARCEL	2.3	2.3
FESTORINA	2.3	2.3
JOHNSTONE	2.3	2.3
KENHY	2.3	2.3
KY-31	2.3	2.3
NK 82508	2.3	2.3
ADVENTURE	2.0	2.0
BROOKSTON	2.0	2.0
MAVERICK	2.0	2.0
MER FA 83-1	2.0	2.0
MUSTANG	2.0	2.0
REBEL	2.0	2.0
SYN-GA-1	2.0	2.0
5L4 (BONANZA)	1.7	1.7
FALCON	1.7	1.7
FINELAWN 5GL	1.7	1.7
FINELAWN I	1.7	1.7
HOUNDOG	1.7	1.7
JAGUAR	1.7	1.7
KS 78-4 (CHESAPEAKE)	1.7	1.7
OLYMPIC	1.7	1.7
TEMPO	1.7	1.7
UNKNOWN	1.7	1.7
WILLAMETTE	1.7	1.7
APACHE	1.3	1.3
ARID	1.3	1.3
NK 81425	1.3	1.3
TF 813 (TRIDENT)	1.3	1.3
ISI.CJ (PACER)	1.0	1.0
LSD VALUE	0.9	0.9

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

TABLE 7. LEAF TEXTURE RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

NAME	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 1/			
	CA3	MO2	OH1	MEAN
JAGUAR	7.3	5.7	7.0	6.7
FINELAWN 5GL	5.7	7.0	7.0	6.6
TF 813 (TRIDENT)	6.3	6.3	6.7	6.4
REBEL	6.0	6.3	6.3	6.2
WILLAMETTE	5.7	6.0	6.7	6.1
TEMPO	5.3	6.7	6.3	6.1
MAVERICK	6.0	6.0	6.0	6.0
MUSTANG	6.0	5.3	6.7	6.0
NK 82508	5.0	7.0	6.0	6.0
OLYMPIC	6.0	5.0	7.0	6.0
SYN-GA-1	5.3	6.0	6.7	6.0
ADVENTURE	6.7	4.7	6.3	5.9
ARID	5.7	5.7	6.3	5.9
FALCON	6.0	5.3	6.3	5.9
ISI.CJ (PACER)	5.3	6.0	6.3	5.9
BROOKSTON	5.3	5.3	6.7	5.8
HOUNDOG	5.3	5.7	6.3	5.8
MER FA 83-1	5.3	5.7	6.3	5.8
UNKNOWN	6.0	5.3	6.0	5.8
5L4 (BONANZA)	6.0	5.0	6.0	5.7
APACHE	6.3	4.7	6.0	5.7
KY-31	4.0	8.0	5.0	5.7
BARCEL	5.3	5.3	6.0	5.6
KS 78-4 (CHESAPEAKE)	4.0	6.3	6.0	5.4
NK 81425	4.0	5.7	6.3	5.3
CLEMFINE	4.7	4.7	6.3	5.2
FESTORINA	5.0	5.0	5.7	5.2
FINELAWN I	5.3	4.0	6.0	5.1
JOHNSTONE	4.0	5.3	5.7	5.0
KENHY	.	4.3	5.7	5.0
LSD VALUE	1.0	2.5	0.7	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 8. SPRING DENSITY RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

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

NAME	MO2	OH1	MEAN
5L4 (BONANZA)	7.0	6.7	6.8
ARID	7.0	6.7	6.8
TF 813 (TRIDENT)	7.7	5.7	6.7
FINELAWN I	7.3	6.0	6.7
ISI.CJ (PACER)	7.3	6.0	6.7
OLYMPIC	7.0	6.3	6.7
BARCEL	7.0	6.0	6.5
FALCON	7.0	6.0	6.5
FINELAWN 5GL	6.7	6.3	6.5
HOUNDOG	7.3	5.7	6.5
KS 78-4 (CHESAPEAKE)	6.7	6.0	6.3
MER FA 83-1	7.0	5.7	6.3
ADVENTURE	6.3	6.0	6.2
JAGUAR	6.3	6.0	6.2
MAVERICK	6.3	6.0	6.2
MUSTANG	6.3	6.0	6.2
APACHE	5.3	6.7	6.0
CLEMFINE	7.0	5.0	6.0
JOHNSTONE	6.3	5.7	6.0
SYN-GA-1	6.0	6.0	6.0
UNKNOWN	6.0	6.0	6.0
KY-31	5.7	6.0	5.8
TEMPO	6.7	4.7	5.7
WILLAMETTE	5.7	5.7	5.7
BROOKSTON	6.0	5.0	5.5
FESTORINA	5.7	5.3	5.5
KENHY	5.7	5.3	5.5
REBEL	4.7	6.0	5.3
NK 81425	5.0	4.3	4.7
NK 82508	3.7	5.3	4.5
LSD VALUE	2.0	1.1	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 9. SUMMER DENSITY RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

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

NAME	MO2	OH1	MEAN
5L4 (BONANZA)	7.3	7.0	7.2
ARID	7.0	7.3	7.2
CLEMFINE	7.7	6.0	6.8
MUSTANG	7.3	6.3	6.8
FINELAWN 5GL	7.0	6.3	6.7
ISI.CJ (PACER)	7.0	6.3	6.7
TF 813 (TRIDENT)	7.0	6.3	6.7
APACHE	6.0	7.0	6.5
HOUNDOG	6.7	6.3	6.5
OLYMPIC	6.3	6.7	6.5
UNKNOWN	6.0	6.7	6.3
ADVENTURE	6.3	6.3	6.3
BARCEL	6.3	6.3	6.3
FALCON	6.3	6.3	6.3
FINELAWN I	6.3	6.3	6.3
REBEL	5.7	6.7	6.2
KS 78-4 (CHESAPEAKE)	6.0	6.3	6.2
JAGUAR	5.7	6.3	6.0
MAVERICK	6.0	6.0	6.0
SYN-GA-1	5.0	7.0	6.0
TEMPO	5.7	6.3	6.0
FESTORINA	5.7	6.0	5.8
KY-31	5.7	6.0	5.8
MER FA 83-1	5.7	6.0	5.8
BROOKSTON	5.7	5.7	5.7
JOHNSTONE	5.3	6.0	5.7
NK 81425	5.3	6.0	5.7
WILLAMETTE	5.0	6.3	5.7
KENHY	4.7	5.7	5.2
NK 82508	3.0	6.0	4.5
LSD VALUE	1.6	0.7	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 10. FALL DENSITY RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

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

NAME	MO2	OH1	MEAN
5L4 (BONANZA)	7.0	8.0	7.5
ARID	7.0	8.0	7.5
TF 813 (TRIDENT)	7.7	7.3	7.5
FINELAWN I	7.0	7.7	7.3
BARCEL	7.3	7.3	7.3
HOUNDOG	7.3	7.3	7.3
ISI.CJ (PACER)	6.7	7.7	7.2
APACHE	6.3	8.0	7.2
CLEMFINE	7.0	7.3	7.2
FALCON	6.3	8.0	7.2
JAGUAR	6.7	7.5	7.1
MUSTANG	6.7	7.3	7.0
OLYMPIC	7.0	7.0	7.0
BROOKSTON	6.3	7.5	6.9
TEMPO	6.7	7.0	6.8
MAVERICK	5.7	7.7	6.7
ADVENTURE	6.3	7.0	6.7
FINELAWN 5GL	6.3	7.0	6.7
JOHNSTONE	6.3	7.0	6.7
KS 78-4 (CHESAPEAKE)	6.0	7.3	6.7
REBEL	5.3	8.0	6.7
KENHY	6.0	7.0	6.5
MER FA 83-1	6.0	7.0	6.5
UNKNOWN	5.7	7.3	6.5
SYN-GA-1	5.0	7.7	6.3
WILLAMETTE	4.7	7.7	6.2
FESTORINA	5.3	7.0	6.2
KY-31	5.3	7.0	6.2
NK 81425	5.0	7.0	6.0
NK 82508	3.3	7.0	5.2
LSD VALUE	1.7	0.7	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 11. PERCENT LIVING GROUND COVER (SPRING)
RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/

NAME	MO2	UB1	VA1	VA4	MEAN
KENHY	81.7	99.0	.	80.0	86.9
ARID	85.0	91.3	71.7	68.3	79.1
5L4 (BONANZA)	88.3	88.3	68.3	66.7	77.9
MAVERICK	86.7	88.3	63.3	71.7	77.5
KS 78-4 (CHESAPEAKE)	86.7	94.7	51.7	75.0	77.0
FINELAWN I	83.3	97.7	58.3	66.7	76.5
TEMPO	86.7	83.3	66.7	68.3	76.3
REBEL	81.7	88.0	68.3	66.7	76.2
HOUNDOG	81.7	91.7	63.3	66.7	75.8
OLYMPIC	85.0	90.0	66.7	60.0	75.4
FALCON	83.3	94.7	53.3	70.0	75.3
KY-31	83.3	97.7	58.3	61.7	75.3
FINELAWN 5GL	90.0	86.7	75.0	45.0	74.2
UNKNOWN	86.7	83.3	61.7	63.3	73.8
ADVENTURE	76.7	89.7	63.3	65.0	73.7
ISI.CJ (PACER)	81.7	90.0	46.7	73.3	72.9
APACHE	73.3	91.3	63.3	63.3	72.8
CLEMFINE	93.3	81.7	50.0	65.0	72.5
MUSTANG	86.7	90.0	56.7	56.7	72.5
TF 813 (TRIDENT)	81.7	80.0	75.0	53.3	72.5
MER FA 83-1	83.3	88.3	50.0	66.7	72.1
JAGUAR	75.0	88.3	70.0	53.3	71.7
SYN-GA-1	80.0	78.3	68.3	58.3	71.3
BARCEL	81.7	76.7	61.7	63.3	70.8
JOHNSTONE	85.0	91.3	41.7	61.7	69.9
BROOKSTON	78.3	88.0	46.7	63.3	69.1
FESTORINA	78.3	78.0	40.0	80.0	69.1
WILLAMETTE	71.7	84.7	45.0	66.7	67.0
NK 81425	63.3	96.0	30.0	68.3	64.4
NK 82508	63.3	80.0	36.7	70.0	62.5
LSD VALUE	15.7	14.0	18.9	23.3	9.2

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

TABLE 12. PERCENT LIVING GROUND COVER (SUMMER)
RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/

NAME	MO2	VA4	MEAN
CLEMFINE	88.3	76.7	82.5
UNKNOWN	88.3	75.0	81.7
ARID	83.3	76.7	80.0
KENHY	80.0	80.0	80.0
SYN-GA-1	81.7	76.7	79.2
KS 78-4 (CHESAPEAKE)	80.0	78.3	79.2
FALCON	80.0	76.7	78.3
TEMPO	80.0	76.7	78.3
5L4 (BONANZA)	83.3	73.3	78.3
FESTORINA	76.7	78.3	77.5
FINELAWN 5GL	90.0	63.3	76.7
ISI.CJ (PACER)	86.7	66.7	76.7
MER FA 83-1	81.7	71.7	76.7
OLYMPIC	83.3	70.0	76.7
REBEL	76.7	75.0	75.8
MAVERICK	83.3	68.3	75.8
TF 813 (TRIDENT)	86.7	63.3	75.0
MUSTANG	85.0	63.3	74.2
FINELAWN I	80.0	68.3	74.2
JOHNSTONE	78.3	68.3	73.3
KY-31	78.3	68.3	73.3
BROOKSTON	80.0	65.0	72.5
APACHE	71.7	70.0	70.8
BARCEL	73.3	68.3	70.8
HOUNDOG	71.7	68.3	70.0
WILLAMETTE	66.7	70.0	68.3
ADVENTURE	73.3	58.3	65.8
JAGUAR	70.0	61.7	65.8
NK 81425	63.3	68.3	65.8
NK 82508	60.0	68.3	64.2
LSD VALUE	18.3	20.5	13.7

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 13. PERCENT LIVING GROUND COVER (FALL)
RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/

NAME	MO2	VA1	VA4	MEAN
KENHY	83.3	.	78.3	80.8
TF 813 (TRIDENT)	88.3	75.0	76.7	80.0
5L4 (BONANZA)	81.7	73.3	75.0	76.7
REBEL	75.0	78.3	76.7	76.7
FALCON	81.7	60.0	86.7	76.1
CLEMFINE	86.7	61.7	80.0	76.1
ARID	81.7	70.0	75.0	75.6
FINELAWN 5GL	90.0	66.7	70.0	75.6
OLYMPIC	81.7	70.0	75.0	75.6
SYN-GA-1	83.3	71.7	71.7	75.6
FINELAWN I	88.3	61.7	75.0	75.0
UNKNOWN	86.7	65.0	73.3	75.0
ADVENTURE	76.7	76.7	70.0	74.4
MUSTANG	85.0	63.3	73.3	73.9
TEMPO	81.7	66.7	73.3	73.9
APACHE	70.0	70.0	80.0	73.3
KS 78-4 (CHESAPEAKE)	83.3	60.0	76.7	73.3
MAVERICK	80.0	58.3	80.0	72.8
FESTORINA	81.7	50.0	83.3	71.7
JAGUAR	73.3	66.7	71.7	70.6
BARCEL	81.7	53.3	75.0	70.0
KY-31	85.0	55.0	68.3	69.4
JOHNSTONE	81.7	50.0	75.0	68.9
MER FA 83-1	76.7	48.3	81.7	68.9
HOUNDOG	66.7	61.7	76.7	68.3
ISI.CJ (PACER)	75.0	48.3	81.7	68.3
NK 82508	60.0	58.3	78.3	65.6
BROOKSTON	76.7	45.0	73.3	65.0
WILLAMETTE	70.0	43.3	81.7	65.0
NK 81425	61.7	33.3	73.3	56.1
LSD VALUE	15.0	16.8	13.6	8.8

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 14. BROWN PATCH RATINGS OF TALL FESCUE CULTIVARS
1987 DATA

	BROWN PATCH RATINGS 1-9; 9=NO DISEASE 1/		
NAME	NE1	NJ1	MEAN
MAVERICK	6.3	6.7	6.5
ADVENTURE	5.7	6.3	6.0
CLEMFINE	5.3	6.7	6.0
JAGUAR	6.0	5.7	5.8
NK 82508	5.3	5.3	5.3
JOHNSTONE	5.3	5.0	5.2
KENHY	6.0	4.3	5.2
KS 78-4 (CHESAPEAKE)	5.3	5.0	5.2
WILLAMETTE	6.3	3.7	5.0
ARID	5.7	4.0	4.8
FINELAWN 5GL	4.0	5.7	4.8
MUSTANG	4.7	5.0	4.8
FALCON	5.3	4.3	4.8
NK 81425	6.0	3.3	4.7
BROOKSTON	5.3	4.0	4.7
ISI.CJ (PACER)	5.0	4.3	4.7
5L4 (BONANZA)	4.3	4.7	4.5
FESTORINA	6.0	3.0	4.5
FINELAWN I	3.7	5.3	4.5
KY-31	3.7	5.3	4.5
TF 813 (TRIDENT)	4.3	4.7	4.5
APACHE	4.7	4.0	4.3
MER FA 83-1	4.3	4.3	4.3
REBEL	4.3	4.3	4.3
UNKNOWN	3.7	5.0	4.3
OLYMPIC	4.0	4.3	4.2
TEMPO	4.3	3.7	4.0
HOUNDOG	4.0	3.7	3.8
SYN-GA-1	4.3	3.0	3.7
BARCEL	3.7	3.0	3.3
LSD VALUE	2.8	3.1	2.1

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