

## **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 National Turfgrass Federation, Inc. 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, one member from the American Sod Producers 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 1991

<u>State</u>	<u>Location</u>	<u>Code</u>
Colorado	Fort Collins	CO1
District of Columbia	Washington Monument Grounds	DC1
Idaho	Rathdrum	ID3
Illinois	Carbondale	IL2
Iowa	Ames	IA1
Kansas	Wichita	KS2
Maryland	Beltsville	UB1
Missouri	St. Louis	MO3
New Jersey	North Brunswick	NJ1
New Jersey	Pittstown	NJ2
Ohio	Marysville	OH1
Oregon	Hubbard	OR1
Oregon	Halsey	OR3
Pennsylvania	University Park (mowed four times in 1991)	PA1
Rhode Island	Kingston	RI1
Virginia	Norton	VA6
Washington	Pullman	WA1

1990 NATIONAL KENTUCKY BLUEGRASS TEST  
(Low Maintenance)

Entries and Sponsors

Entry No.	Name	Sponsor	Entry No.	Name	Sponsor
1	Monopoly	Peterson Seed Company	36	PST-YQ	Pure-Seed Testing, Inc.
2	Merit	Full Circle, Inc.	37	PST-A7-111	Pure-Seed Testing, Inc.
3	Park	Norfarm Seeds	38	Liberty	Zajac Performance Seeds
4	Kyosti	Norfarm Seeds	39	Suffolk	Loft's Seed, Inc.
5	Baron	Barenbrug Holland	40	Amazon	Jacklin Seed Company
6	Barzan	Barenbrug Holland	41	Destiny	Jonathan Green & Son
7	Barsweet	Barenbrug Holland	42	H76-1034	Jacklin Seed Company
8	Bartitia	Barenbrug Holland	43	Washington	Cascade Inter./Jon. Green
9	Barmax	Barenbrug Holland	44	Freedom	Jacklin Seed Company
10	BAR VB 895	Barenbrug Holland	45	Merion	-
11	MN 2405	Univ. of Minnesota	46	NuStar	Jacklin Seed Company
12	Bronco	Pickseed West	47	J-335	Jacklin Seed Company
13	Crest	Pickseed West	48	J-386	Jacklin Seed Company
14	Ba 78-376	O. M. Scott & Son	49	NuBlue (J-229)	Jacklin Seed Company
15	Ba 74-017	O. M. Scott & Son	50	Haga	E. F. Burlingham & Son
16	GEN-RSP	Genesis Group	51	Opal	E. F. Burlingham & Son
17	NJIC	Rutgers Univ.- C. R. Funk	52	SR 2000	Seed Research of Oregon
18	NE 80-47	Smith Seed Services	53	Gnome	Turf Merchants
19	Fortuna	Cebeco Handelsraad	54	Chelsea	Turf Merchants
20	Miracle	Cebeco Handelsraad	55	Cobalt	Turf Merchants
21	ISI-21	International Seeds, Inc.	56	KWS Pp 13-2	Turf Merchants
22	Sophia	Advanta Seeds West	57	BAR VB 1169	Barenbrug Holland
23	Cynthia	Advanta Seeds West	58	BAR VB 1184	Barenbrug Holland
24	EVB 13.703	International Seeds, Inc.	59	BAR VB 7037	Barenbrug Holland
25	EVB 13.863	International Seeds, Inc.	60	Kenblue	-
26	Ram-1	Loft's Seed, Inc.	61	South Dakota Cert.	-
27	798	Loft's Seed, Inc.	62	Alene	Seeds, Inc.
28	Unknown	-			
29	ZPS-84-749	Zajac Performance Seeds			
30	Livingston	Turf-Seed, Inc.			
31	PST-C-391	Pure-Seed Testing, Inc.			
32	Voyager	Turf-Seed, Inc.			
33	PST-C-303	Pure-Seed Testing, Inc.			
34	Midnight	Turf-Seed, Inc.			
35	Unique (PST-C-76)	Turf-Seed, Inc.			

TABLE A.

1991 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 1990 NATIONAL KENTUCKY BLUEGRASS TEST (LOW MAINTENANCE)

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
CO1	SILTY CLAY LOAM	7.6-8.5	0-60	501+	4.1-5.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
DC1	-	-	-	-	1.1-2.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
ID3	SANDY LOAM	4.6-5.5	0-60	0-150	3.1-4.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
IL2	SILTY CLAY AND CLAY	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
KS2	SANDY LOAM	6.6-7.0	61-150	241-375	1.1-2.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
MO3	SILTY CLAY LOAM	6.6-7.0	0-60	151-240	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
NJ1	LOAM	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
NJ2	SILT LOAM AND SILT	6.1-6.5	61-150	0-150	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
OH1	SILTY CLAY LOAM	-	-	-	1.1-2.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
OR1	SILT LOAM AND SILT	5.6-6.0	151-270	241-375	1.1-2.0	FULL SUN	1.6-2.0	NO IRRIGATION
OR3	SILT LOAM AND SILT	4.6-5.5	0-60	0-150	1.1-2.0	FULL SUN	1.6-2.0	NO IRRIGATION
PA1	SILT LOAM AND SILT	-	-	-	0.0-1.0	FULL SUN	3.6-4.0	NO IRRIGATION
RI1	SILT LOAM AND SILT	6.6-7.0	271-450	151-240	1.1-2.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
UB1	SILT LOAM AND SILT	4.6-5.5	61-150	151-240	0.0-1.0	FULL SUN	2.1-2.5	NO IRRIGATION
VA6	SANDY CLAY	6.6-7.0	151-270	151-240	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
WA1	SILT LOAM AND SILT	6.1-6.5	451+	501+	1.1-2.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 1991

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
CO1									X			
DC1						X	X	X	X	X	X	
IA1				X	X	X	X	X		X		
ID3					X	X	X	X	X	X		
IL2				X	X	X	X	X				
KS2					X	X	X	X	X			
MO3				X	X	X	X	X	X	X	X	
NJ1				X	X	X	X	X	X	X	X	
NJ2				X		X	X	X	X	X	X	
OH1						X	X			X		
OR1	X	X	X	X	X	X	X	X		X	X	X
OR3												
PA1						X				X		
RI1						X	X	X	X	X	X	
UB1				X	X	X	X	X	X	X	X	
VA6								X		X	X	
WA1							X		X	X		

TABLE B. (CONTINUED)

## LOCATIONS AND DATA COLLECTED IN 1991

LOCATION	GENETIC COLOR RATING	SPRING GREENUP RATING	LEAF TEXTURE RATING	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL
CO1				X						
DC1										
IA1										
ID3	X	X	X			X				
IL2								X		
KS2										
MO3	X		X	X	X	X	X	X	X	X
NJ1	X	X		X						
NJ2										
OH1	X				X	X				
OR1										
OR3				X						
PA1	X							X	X	
RI1										
UB1				X						
VA6								X	X	
WA1										

TABLE B. (CONTINUED)

## LOCATIONS AND DATA COLLECTED IN 1991

LOCATION	FROST TOLERANCE	WINTER COLOR	DROUGHT TOLERANCE DORMANCY	LEAF SPOT	RED THREAD	LEAF RUST	POA ANNUA	CANOPY HEIGHT
CO1								
DC1						X		
IA1								
ID3	X			X				
IL2			X					
KS2								
MO3	X							
NJ1								
NJ2								
OH1							X	
OR1		X		X				
OR3								
PA1				X				X
RI1					X			
UB1		X	X	X				
VA6								
WA1								



TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S.  
1991 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 1/																
	CO1	DC1	IA1	ID3	IL2	KS2	MO3	NJ1	NJ2	OH1	OR1	PA1	RI1	UB1	VA6	WA1	MEAN
* MIDNIGHT	8.0	2.4	4.9	7.2	3.9	6.9	7.8	6.9	6.7	6.1	5.4	3.7	2.4	7.3	5.8	5.9	5.7
* BARMAX	9.0	3.8	6.1	7.0	5.7	4.9	6.1	5.1	4.7	7.3	5.4	4.7	3.0	6.3	6.3	5.1	5.7
* RAM-1	7.0	2.8	5.9	7.1	4.3	5.6	6.9	5.6	6.2	7.2	4.4	4.3	3.2	6.2	5.8	5.7	5.5
* COBALT	8.0	4.0	4.6	6.6	3.9	6.9	6.9	5.6	5.9	6.1	5.5	4.0	2.6	6.5	5.2	5.7	5.5
BAR VB 7037	8.7	3.4	5.8	7.3	4.4	5.9	5.8	4.6	5.0	6.2	5.4	5.0	3.2	6.7	5.2	5.2	5.5
* SOPHIA	8.7	2.9	5.8	7.0	3.8	6.3	6.4	5.4	5.8	6.2	4.1	3.8	3.3	7.3	5.1	5.7	5.5
* MERIT	8.3	3.3	5.3	6.4	4.3	6.3	6.5	5.2	6.0	6.4	4.9	4.0	2.6	6.7	5.3	5.3	5.4
PST-C-303	8.3	3.4	5.6	6.4	4.0	6.7	6.7	4.8	4.9	6.8	5.8	4.8	3.0	6.0	5.3	4.3	5.4
* BARTITIA	9.0	2.2	4.1	7.7	3.9	5.3	6.5	5.2	6.1	6.6	6.1	4.0	2.7	6.7	6.0	5.0	5.4
* FORTUNA	7.7	3.1	4.8	7.3	3.3	6.4	6.8	5.5	5.7	6.2	5.3	4.7	2.7	6.8	5.1	5.2	5.4
BAR VB 895	8.3	3.9	5.8	6.5	4.1	6.5	6.4	5.2	4.8	6.6	3.7	4.8	3.4	5.5	6.0	5.1	5.4
* LIVINGSTON	8.0	3.6	5.3	5.7	5.0	6.1	6.2	5.3	5.6	6.0	5.7	4.2	2.9	6.3	5.6	5.1	5.4
ISI-21	7.7	4.9	5.7	6.3	4.5	6.3	6.0	4.7	4.5	6.8	3.1	4.3	3.2	5.9	6.9	5.3	5.4
* CREST	8.0	3.3	5.3	5.9	4.1	6.0	6.7	5.8	5.9	5.8	4.9	4.7	2.9	6.3	5.0	5.6	5.4
BAR VB 1169	8.0	4.1	4.9	7.1	5.0	5.7	6.5	4.4	5.1	5.9	5.8	4.5	2.3	6.3	5.1	5.3	5.4
* OPAL	8.3	3.5	5.7	7.6	5.5	4.7	6.8	4.5	5.4	6.2	4.0	4.3	2.7	6.7	5.3	4.6	5.4
PST-C-391	8.0	5.1	5.7	6.5	4.3	6.3	6.2	4.4	5.0	6.3	5.2	3.7	2.8	6.1	5.8	4.4	5.4
EVB 13.863	8.0	3.2	5.0	7.2	3.9	6.0	6.0	4.1	5.1	6.1	5.5	3.8	3.3	6.5	5.9	5.7	5.3
* CYNTHIA	8.3	2.7	4.9	6.9	4.9	5.6	6.5	4.8	5.7	6.1	4.9	4.3	3.0	6.4	5.4	4.9	5.3
798	7.7	2.8	4.7	6.5	4.7	5.5	7.4	5.8	5.8	6.0	5.4	4.3	2.8	6.6	4.8	4.8	5.3
UNKNOWN	7.7	2.8	4.7	6.3	4.0	6.5	6.5	5.3	6.0	6.4	5.7	4.3	3.0	6.3	4.7	4.9	5.3
* UNIQUE (PST-C-76)	8.0	2.8	5.3	6.7	3.7	5.5	6.6	5.4	5.8	6.4	6.1	3.5	2.3	6.4	5.7	5.1	5.3
J-335	8.0	3.9	4.7	7.3	4.6	5.7	6.1	4.3	5.0	6.3	5.9	3.8	2.4	6.6	5.2	5.0	5.3
PST-YQ	7.7	3.4	6.1	6.7	5.2	6.3	6.0	4.4	4.8	6.8	3.6	4.0	2.9	6.5	6.1	4.6	5.3
GEN-RSP	8.0	5.4	6.6	7.1	5.7	5.9	5.9	4.7	4.4	6.3	3.0	4.8	2.7	5.2	5.0	4.2	5.3
* BRONCO	8.3	3.1	6.3	5.6	4.9	6.3	5.8	4.8	5.0	6.8	4.1	4.8	3.1	6.3	5.3	4.6	5.3
* BARON	7.3	3.1	5.6	6.5	2.9	6.9	6.6	5.4	6.0	6.3	4.9	3.8	3.4	5.5	5.4	4.8	5.3
BA 74-017	7.7	4.1	5.2	6.3	4.1	6.1	6.4	5.7	6.4	5.8	4.1	4.3	2.6	6.2	4.7	5.0	5.3
* BARSWEET	8.0	2.8	4.2	7.3	3.7	5.4	7.1	5.6	5.8	6.4	5.6	4.0	3.0	5.5	4.8	5.3	5.3
* HAGA	8.0	3.2	5.7	6.7	4.7	6.1	6.0	4.3	5.1	6.8	3.8	4.3	2.9	6.0	6.3	4.6	5.3
* SUFFOLK	8.0	4.0	5.6	6.1	4.0	6.3	5.8	4.3	4.9	6.8	4.8	4.5	3.2	5.5	5.6	5.0	5.3
* FREEDOM	7.7	3.3	5.5	6.5	4.9	5.9	6.4	4.8	4.5	6.6	4.2	3.7	3.2	6.2	5.9	5.0	5.3
* VOYAGER	8.3	3.9	5.9	7.1	4.9	5.9	6.2	4.4	4.7	6.7	2.8	4.8	2.6	5.2	6.3	4.2	5.3
* WASHINGTON	7.3	2.9	5.5	6.9	4.1	5.7	5.9	4.9	5.4	6.1	5.7	3.5	3.3	6.0	5.8	4.9	5.3
ZPS-84-749	8.0	2.6	5.9	6.8	5.7	5.4	6.1	4.6	4.9	6.6	3.9	4.2	3.0	6.7	5.1	4.1	5.2
* NUSTAR	8.0	2.8	4.9	6.5	3.3	5.9	5.8	4.9	5.0	6.0	5.4	4.0	3.4	7.0	5.7	4.8	5.2
* NUBLUE (J-229)	7.3	2.8	5.7	6.9	3.7	6.1	6.2	4.8	5.4	6.3	4.8	4.7	2.8	6.3	4.8	4.7	5.2
* SR 2000	8.3	3.2	4.7	5.7	4.7	5.7	7.5	5.4	5.9	5.7	5.4	3.7	2.7	6.0	4.6	4.0	5.2
* LIBERTY	7.3	3.4	4.8	6.6	4.1	5.6	6.1	5.4	5.3	6.6	4.6	3.7	3.6	6.0	5.0	5.0	5.2
BAR VB 1184	8.0	2.3	3.9	6.6	3.7	4.6	6.1	4.9	6.2	6.1	6.1	4.5	2.8	6.5	5.6	5.1	5.2
* MONOPOLY	7.0	3.9	5.7	4.9	4.8	5.7	5.5	4.1	4.8	7.3	3.9	5.0	3.6	6.1	5.3	4.9	5.2
* GNOME	6.7	3.1	5.9	6.1	4.3	5.7	6.3	4.5	5.7	6.4	4.6	4.2	2.9	6.0	5.6	4.6	5.2
* DESTINY	7.7	2.3	5.4	5.7	3.8	5.6	6.5	5.6	5.7	6.4	3.9	4.0	2.8	6.2	4.8	5.6	5.1
* NJIC	8.0	3.8	5.9	6.8	3.6	6.1	5.9	5.0	4.0	6.3	3.0	4.5	3.1	5.6	5.9	4.0	5.1
* BARZAN	7.7	1.6	4.1	6.7	3.9	6.1	6.3	5.0	5.7	5.7	4.4	4.3	2.6	6.5	4.4	5.1	5.0

TABLE 1.  
(CONTINUED)

MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S.  
1991 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CO1	DC1	IA1	ID3	IL2	KS2	MO3	NJ1	NJ2	OH1	OR1	PA1	RI1	UB1	VA6	WA1	MEAN
* MIRACLE	8.0	2.3	5.6	7.7	3.1	4.5	6.0	4.1	5.4	5.9	5.5	4.3	2.7	5.3	5.0	4.6	5.0
PST-A7-111	7.7	3.3	6.8	5.7	4.0	5.6	5.0	4.1	4.2	5.9	4.0	4.2	2.7	6.9	5.0	4.1	5.0
J-386	8.0	2.8	4.9	6.1	4.3	6.0	5.3	4.3	5.0	5.9	4.3	4.2	3.1	6.1	5.2	3.7	4.9
H76-1034	8.7	3.5	5.3	5.7	4.9	5.7	5.1	3.8	4.4	6.4	2.8	4.2	3.2	4.9	5.2	4.3	4.9
EVB 13.703	7.0	2.0	4.2	7.0	3.5	4.1	6.5	5.5	5.0	6.0	5.7	3.8	2.1	6.2	4.3	5.0	4.9
* CHELSEA	7.3	1.9	4.9	5.3	3.3	6.3	4.9	4.2	5.7	5.4	5.8	4.3	1.9	7.1	3.3	5.9	4.9
* AMAZON	8.0	2.4	5.2	7.1	3.6	4.3	6.3	4.9	5.2	5.4	4.8	3.2	2.9	5.3	4.8	3.7	4.8
NE 80-47	7.7	2.2	4.7	6.3	3.4	5.1	6.6	4.9	5.0	5.3	4.5	4.0	2.4	5.9	5.2	3.4	4.8
* ALENE	7.7	3.1	6.2	5.7	5.1	5.5	5.0	3.4	4.0	5.9	2.7	4.3	3.5	4.9	4.9	4.3	4.8
* KYOSTI	7.3	2.5	3.9	6.5	4.3	4.9	5.8	4.9	4.8	6.1	3.5	3.8	2.6	6.1	5.1	3.9	4.8
* PARK	6.0	3.3	6.1	4.6	4.3	5.1	5.0	3.5	3.9	6.3	2.9	4.0	3.1	6.0	5.3	3.6	4.6
* KENBLUE	6.7	3.2	6.2	4.5	4.7	4.7	5.1	3.1	3.7	6.2	2.3	4.3	3.2	4.9	5.4	3.7	4.5
KWS PP 13-2	6.7	2.0	4.8	4.7	3.3	6.5	4.7	3.8	5.1	5.1	4.8	3.5	2.2	5.8	3.1	4.6	4.4
MN 2405	7.0	3.7	6.4	4.6	3.8	5.1	5.2	3.4	3.1	6.0	2.3	4.2	2.2	5.4	4.9	3.3	4.4
BA 78-376	6.0	2.3	5.8	4.1	4.9	5.0	4.4	3.0	3.5	6.1	2.5	3.3	3.6	4.9	5.3	3.3	4.3
* MERION	6.7	1.7	3.1	5.9	3.0	4.1	6.1	4.4	3.4	5.6	5.1	2.0	1.3	5.8	4.8	5.1	4.3
* SOUTH DAKOTA CERT.	7.0	2.3	6.0	4.0	4.3	5.2	4.5	2.4	3.5	5.2	1.7	4.5	2.4	4.0	4.0	4.1	4.1
LSD VALUE	1.1	1.0	1.0	0.9	1.6	1.1	0.8	0.9	0.7	0.9	0.8	1.0	0.7	1.0	1.0	1.4	0.3

\* COMMERCIALY AVAILABLE IN THE UNITED STATES IN 1992

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 KENTUCKY BLUEGRASS CULTIVARS FOR EACH MONTH GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S. 1991 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 1/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MIDNIGHT	5.3	4.7	6.0	4.8	6.7	5.7	5.3	5.6	6.5	5.7	5.6	6.0	5.7
BARMAX	6.3	5.0	6.0	6.1	6.8	5.8	5.0	4.9	5.5	5.0	4.9	5.0	5.7
RAM-1	5.3	5.3	4.0	5.1	6.4	5.7	5.1	4.9	5.3	5.6	5.3	4.3	5.5
COBALT	8.0	7.0	7.0	4.9	6.5	5.5	5.1	5.1	6.0	5.3	5.0	5.0	5.5
BAR VB 7037	4.7	6.3	6.7	5.6	6.4	5.7	5.0	4.9	5.6	4.9	4.3	4.7	5.5
SOPHIA	4.3	4.3	4.7	4.9	6.0	5.4	5.2	5.3	6.0	5.2	4.8	4.0	5.5
MERIT	5.7	5.0	5.7	5.0	6.0	5.3	5.2	5.3	5.6	5.3	5.0	4.3	5.4
PST-C-303	7.7	6.7	6.3	5.6	6.3	5.4	5.0	4.7	5.4	5.3	5.0	5.7	5.4
BARTITIA	5.7	6.0	6.3	4.4	6.5	5.7	4.7	5.0	5.5	5.4	5.2	6.3	5.4
FORTUNA	6.0	6.0	6.3	4.8	6.5	5.4	5.3	5.3	5.7	5.2	4.5	4.3	5.4
BAR VB 895	2.3	4.3	3.7	5.0	5.6	5.2	4.9	5.0	5.6	5.3	4.9	5.0	5.4
LIVINGSTON	7.3	8.0	6.3	5.1	6.1	5.3	5.2	4.9	5.5	5.1	5.3	4.3	5.4
ISI-21	3.0	3.3	2.3	5.1	5.4	5.0	5.0	5.1	5.7	5.1	5.0	4.3	5.4
CREST	5.3	4.7	4.7	4.7	6.2	5.3	5.3	5.3	5.8	5.2	4.8	5.0	5.4
BAR VB 1169	7.0	6.7	7.3	6.1	6.3	5.3	4.6	4.7	5.8	5.2	4.3	5.3	5.4
OPAL	5.7	4.3	4.7	5.1	6.3	5.4	4.8	5.2	5.8	4.9	4.4	3.3	5.4
PST-C-391	7.0	6.7	5.7	5.3	6.0	5.2	4.9	4.8	5.6	5.1	5.1	5.3	5.4
CYNTHIA	6.7	5.7	4.7	5.0	5.9	5.2	4.6	5.1	5.7	5.1	5.0	6.3	5.3
798	6.3	5.7	7.0	5.5	6.7	5.4	5.3	4.6	5.6	5.2	4.7	4.7	5.3
UNKNOWN	6.7	6.0	5.7	5.1	6.6	5.4	5.1	4.9	5.4	5.2	4.8	4.7	5.3
UNIQUE (PST-C-76)	6.7	8.7	7.3	5.0	6.1	5.3	5.3	5.3	5.8	4.9	4.2	5.0	5.3
J-335	7.3	7.0	6.7	5.8	6.3	5.3	4.8	4.8	5.7	5.0	4.4	4.7	5.3
PST-YQ	5.0	5.3	3.3	5.3	5.9	5.2	4.9	4.9	5.4	4.9	4.7	4.3	5.3
GEN-RSP	3.0	5.3	3.0	5.4	5.6	5.0	4.4	5.0	5.8	5.1	4.5	4.0	5.3
BRONCO	4.7	4.7	4.0	5.0	5.8	5.2	5.1	5.0	5.1	5.1	4.5	4.0	5.3
BARON	5.3	4.7	5.7	4.6	6.2	5.5	5.2	5.0	5.4	5.2	4.9	4.0	5.3
BA 74-017	3.3	3.7	3.7	4.5	6.4	5.1	5.1	5.3	5.7	5.2	4.8	4.3	5.3
BARSWEEP	6.0	5.7	6.3	4.5	6.6	5.4	4.8	5.1	5.6	5.2	4.6	5.0	5.3
HAGA	5.0	5.3	5.0	5.1	5.7	5.2	4.8	4.8	5.3	4.8	4.6	4.0	5.3
SUFFOLK	5.7	6.7	5.0	5.0	5.9	5.2	4.7	4.6	5.2	5.1	4.9	5.0	5.3
EVB 13.863	6.3	5.0	6.0	4.9	6.1	5.2	4.9	4.7	5.5	5.0	4.8	4.7	5.3
FREEDOM	5.0	5.3	4.0	5.0	6.0	5.2	4.9	4.8	5.1	5.1	4.8	4.0	5.3
VOYAGER	3.3	4.0	2.0	4.9	5.3	4.9	4.5	4.7	5.6	5.2	4.5	3.7	5.3
WASHINGTON	6.7	7.3	5.3	5.8	6.3	5.2	4.9	4.9	5.3	4.9	4.6	4.7	5.3
ZPS-84-749	5.0	6.3	5.0	5.0	5.5	5.3	4.9	5.3	5.3	4.8	4.1	3.3	5.2
NUSTAR	6.3	5.7	5.7	4.6	6.1	5.1	4.9	4.9	5.5	5.2	4.8	4.0	5.2
NUBLUE (J-229)	5.0	6.0	5.0	4.2	6.1	5.6	5.1	4.9	5.2	5.1	4.4	4.7	5.2
SR 2000	8.0	6.0	6.7	5.3	6.2	5.1	4.6	4.8	5.7	5.1	4.9	5.3	5.2
LIBERTY	5.7	5.7	5.7	4.8	5.9	5.3	4.9	4.7	5.5	5.0	4.7	5.0	5.2
BAR VB 1184	6.7	6.3	7.0	4.9	6.2	5.5	4.5	4.5	5.3	5.1	4.7	6.0	5.2
MONOPOLY	4.0	4.3	3.7	4.9	5.7	5.1	4.9	4.7	4.9	5.1	4.7	3.7	5.2
GNOME	4.7	5.0	5.0	4.7	6.0	5.3	5.1	5.0	5.0	5.0	4.5	4.3	5.2
DESTINY	4.0	5.3	3.0	4.5	6.0	5.1	5.1	4.9	5.2	4.9	4.5	4.0	5.1
NJIC	4.0	5.0	3.0	4.8	4.8	4.7	4.4	4.6	5.9	5.1	4.7	3.7	5.1
BARZAN	5.7	4.7	4.7	4.2	5.5	4.7	4.6	4.7	5.4	5.1	5.0	4.3	5.0

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS FOR EACH MONTH GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S. 1991 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MIRACLE	7.7	7.0	6.0	5.1	6.3	5.0	4.1	4.2	4.9	5.0	4.3	5.0	5.0
PST-A7-111	5.7	5.3	4.7	4.7	5.5	4.8	4.4	4.9	5.2	4.7	4.1	4.3	5.0
J-386	6.0	5.3	5.0	4.5	5.5	4.8	4.4	4.8	4.9	4.7	4.4	4.0	4.9
H76-1034	2.0	3.0	2.0	4.1	4.8	4.2	4.4	4.4	5.3	4.8	4.6	3.7	4.9
CHELSEA	7.3	6.7	5.7	4.5	6.2	5.0	4.3	4.3	4.8	4.9	4.3	5.7	4.9
AMAZON	5.0	5.7	5.3	4.7	5.8	4.8	4.3	4.5	4.9	4.9	4.3	4.3	4.8
NE 80-47	7.0	6.7	5.3	4.7	5.8	4.7	4.1	4.4	5.1	4.7	4.3	3.7	4.8
EVB 13.703	6.7	8.0	6.7	5.0	6.3	4.9	4.5	4.1	4.9	4.7	4.0	4.3	4.8
ALENE	2.7	2.3	2.0	4.5	4.5	4.0	3.9	4.6	5.4	4.9	4.4	3.3	4.8
KYOSTI	3.0	4.3	4.3	5.0	5.5	4.8	4.3	4.7	4.8	4.3	3.9	3.7	4.8
PARK	3.0	3.3	2.7	5.0	5.0	4.5	4.2	4.6	4.4	4.1	3.8	3.0	4.6
KENBLUE	2.0	2.7	1.7	4.7	5.0	4.1	4.0	4.4	4.2	4.0	3.8	3.3	4.5
KWS PP 13-2	6.0	5.0	5.0	4.1	5.6	4.7	4.3	3.8	4.3	4.2	3.8	4.7	4.4
MN 2405	2.0	2.7	2.3	4.8	4.8	4.3	4.1	4.1	4.2	3.9	3.6	2.7	4.4
BA 78-376	1.7	2.7	2.0	5.0	4.6	4.2	3.8	4.2	3.8	3.9	3.3	3.0	4.3
MERION	8.0	7.3	6.3	4.2	5.0	4.0	4.3	4.1	4.2	3.8	3.6	4.0	4.3
SOUTH DAKOTA CERT.	1.0	1.3	1.0	3.7	3.8	3.8	3.5	3.6	4.3	4.0	3.3	2.7	4.1
LSD VALUE	1.5	1.4	1.3	1.1	0.9	0.7	0.7	0.8	0.9	0.8	0.9	1.1	0.6

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

TABLE 3.

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S. 1/  
1991 DATA

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

NAME	CO1	DC1	IA1	ID3	IL2	KS2	MO3	NJ1	NJ2	OH1	OR1	PA1	RI1	UB1	VA6	WA1	MEAN
MIDNIGHT	23.5	50.0	45.0	8.5	41.5	2.5	1.0	1.0	1.0	39.5	20.5	54.0	54.5	1.0	11.0	1.5	1
BARMAX	1.5	12.0	7.5	16.0	2.5	54.0	35.5	21.0	48.5	1.5	20.5	9.5	24.5	21.5	3.0	18.5	2
RAM-1	54.0	40.5	14.5	13.5	27.5	41.5	6.0	7.0	4.0	3.0	36.0	23.0	15.5	29.0	13.0	4.5	3
COBALT	23.5	6.5	55.0	27.5	41.5	2.5	5.0	7.0	9.5	39.5	14.0	41.0	48.0	14.5	36.0	4.5	4
BAR VB 7037	4.0	19.5	17.5	7.0	22.0	30.0	50.0	37.5	40.0	34.0	19.0	1.5	15.5	10.5	33.0	13.5	5
SOPHIA	4.0	36.0	16.0	16.0	45.0	15.0	22.0	13.0	15.0	31.5	40.0	48.5	10.0	2.0	39.5	4.5	6
MERIT	9.5	26.0	34.0	38.0	27.5	11.0	18.0	18.0	7.0	16.5	25.0	41.0	48.0	8.0	27.0	10.5	7
PST-C-303	9.5	19.5	27.5	37.0	37.5	4.0	10.0	31.0	41.0	7.0	6.0	5.0	24.5	39.0	27.0	46.0	8
BARTITIA	1.5	57.0	59.0	1.0	41.5	48.0	18.0	19.5	5.0	12.0	2.5	41.0	40.5	8.0	6.5	25.0	9
FORTUNA	39.5	31.5	48.5	4.5	57.0	8.0	8.0	9.0	20.0	31.5	22.0	9.5	43.5	6.0	39.5	13.5	10
BAR VB 895	9.5	10.0	17.5	34.5	31.0	5.0	24.0	19.5	45.0	12.0	49.0	5.0	5.5	49.5	6.5	18.5	11
LIVINGSTON	23.5	15.0	34.0	48.5	7.5	18.5	29.0	16.5	22.0	45.0	10.5	33.0	31.0	26.0	17.5	15.0	12
ISI-21	39.5	3.0	20.5	40.0	21.0	11.0	38.5	35.5	50.0	7.0	52.0	23.0	15.5	45.0	1.0	10.5	13
CREST	23.5	23.0	36.0	46.0	34.5	24.0	9.0	2.5	9.5	54.0	26.5	9.5	29.0	23.5	44.0	7.5	14
BAR VB 1169	23.5	4.0	42.0	13.5	7.5	36.5	18.0	42.0	29.5	52.0	7.0	14.0	56.5	26.0	39.5	10.5	15
OPAL	9.5	16.5	24.0	3.0	4.0	57.0	7.0	39.5	24.0	31.5	43.0	23.0	43.5	10.5	27.0	39.5	16
PST-C-391	23.5	2.0	24.0	34.5	27.5	11.0	29.0	44.5	35.0	26.0	23.0	54.0	34.0	35.5	13.0	44.0	17
EVV 13.863	23.5	27.0	40.0	8.5	41.5	24.0	38.5	52.0	29.5	35.5	15.0	48.5	8.5	17.5	9.0	4.5	18
CYNTHIA	9.5	46.0	42.0	20.0	9.0	39.0	18.0	33.5	20.0	39.5	28.0	23.0	24.5	19.0	23.0	31.0	19
798	39.5	40.5	53.0	34.5	19.0	44.5	3.0	2.5	13.0	45.0	16.0	23.0	38.0	12.5	52.0	34.0	20
UNKNOWN	39.5	40.5	50.5	40.0	37.5	6.5	14.5	16.5	6.0	20.0	8.0	23.0	24.5	21.5	55.5	31.0	21
UNIQUE (PST-C-76)	23.5	44.5	37.0	25.5	48.5	43.0	13.0	13.0	12.0	20.0	2.5	58.0	56.5	20.0	15.5	18.5	22
J-335	23.5	8.5	50.5	6.0	20.0	34.0	32.5	46.0	35.0	26.0	4.0	48.5	53.0	12.5	33.0	25.0	23
PST-YQ	39.5	21.0	9.0	23.5	5.0	15.0	41.5	42.0	45.0	7.0	50.0	41.0	29.0	14.5	5.0	42.0	24
GEN-RSP	23.5	1.0	2.0	11.0	1.0	28.0	44.0	35.5	52.0	26.0	53.5	5.0	43.5	56.5	44.0	48.5	25
BRONCO	9.5	34.5	4.0	54.0	13.5	15.0	48.5	31.0	35.0	7.0	42.0	5.0	18.5	26.0	27.0	37.5	26
BARON	48.5	33.0	27.5	32.0	62.0	1.0	11.5	13.0	8.0	26.0	26.5	48.5	5.5	49.5	21.5	34.0	27
BA 74-017	39.5	5.0	38.0	42.0	34.5	18.5	22.0	4.0	2.0	53.0	41.0	23.0	48.0	29.0	55.5	25.0	28
BARSWEEP	23.5	44.5	57.0	4.5	50.5	46.0	4.0	5.0	14.0	20.0	12.0	41.0	24.5	51.5	52.0	10.5	29
HAGA	23.5	29.0	22.0	25.5	17.0	21.5	41.5	48.0	31.5	4.0	48.0	23.0	32.5	39.0	3.0	39.5	30
SUFFOLK	23.5	6.5	27.5	44.0	37.5	11.0	46.5	48.0	42.0	7.0	29.0	14.0	12.5	51.5	19.5	25.0	31
FREEDOM	39.5	23.0	30.5	34.5	10.0	28.0	22.0	33.5	51.0	14.5	39.0	54.0	11.0	29.0	9.0	25.0	32
VOYAGER	9.5	8.5	12.5	11.0	11.5	26.0	29.0	44.5	48.5	10.0	56.5	5.0	48.0	56.5	3.0	48.5	33
WASHINGTON	48.5	37.0	30.5	18.5	32.5	34.0	44.0	25.5	24.0	35.5	10.5	58.0	8.5	42.5	13.0	29.0	34
ZPS-84-749	23.5	47.0	14.5	22.0	2.5	47.0	32.5	37.5	43.0	12.0	45.0	33.0	24.5	8.0	39.5	50.5	35
NUSTAR	23.5	40.5	42.0	30.5	57.0	28.0	46.5	25.5	35.0	45.0	18.0	41.0	7.0	4.0	15.5	34.0	36
NUBLUE (J-229)	48.5	40.5	24.0	18.5	50.5	18.5	31.0	31.0	26.0	26.0	32.0	9.5	36.0	23.5	52.0	36.0	37
SR 2000	9.5	29.0	53.0	48.5	17.0	31.5	2.0	13.0	11.0	55.5	17.0	54.0	39.0	39.0	57.0	53.5	38
LIBERTY	48.5	18.0	47.0	27.5	32.5	39.0	35.5	13.0	27.0	14.5	34.0	54.0	2.0	39.0	44.0	25.0	39
BAR VB 1184	23.5	53.5	60.0	29.0	48.5	58.0	35.5	25.5	3.0	39.5	1.0	14.0	36.0	17.5	19.5	18.5	40
MONOPOLY	54.0	11.0	20.5	56.0	15.0	34.0	51.0	54.0	47.0	1.5	46.0	1.5	3.0	33.5	27.0	31.0	41
GNOME	58.5	31.5	11.0	45.0	27.5	31.5	26.5	39.5	17.0	16.5	33.0	33.0	29.0	39.0	17.5	37.5	42
DESTINY	39.5	53.5	32.0	50.0	46.5	39.0	18.0	7.0	20.0	20.0	47.0	41.0	36.0	31.5	52.0	7.5	43
NJIC	23.5	13.0	12.5	21.0	52.5	21.5	44.0	22.0	55.5	26.0	53.5	14.0	18.5	48.0	9.0	53.5	44
BARZAN	39.5	62.0	58.0	23.5	44.0	18.5	25.0	23.0	17.0	55.5	37.0	23.0	48.0	16.0	58.0	18.5	45

TABLE 3.  
(CONTINUED)

RANKING OF MEAN TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE AT SIXTEEN LOCATIONS IN THE U.S.  
1991 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING

NAME	CO1	DC1	IA1	ID3	IL2	KS2	MO3	NJ1	NJ2	OH1	OR1	PA1	RI1	UB1	VA6	WA1	MEAN
MIRACLE	23.5	55.0	27.5	2.0	60.0	59.0	40.0	52.0	24.0	49.5	13.0	23.0	43.5	54.0	44.0	42.0	46
PST-A7-111	39.5	23.0	1.0	52.0	37.5	41.5	56.0	52.0	54.0	49.5	44.0	33.0	40.5	5.0	44.0	52.0	47
J-386	23.5	40.5	45.0	43.0	24.0	24.0	52.0	48.0	38.5	49.5	38.0	33.0	20.5	33.5	33.0	57.0	48
H76-1034	4.0	16.5	34.0	52.0	13.5	36.5	54.0	55.0	53.0	20.0	56.5	33.0	15.5	58.0	33.0	46.0	49
EV8 13.703	54.0	58.5	56.0	16.0	54.0	61.0	14.5	10.0	35.0	45.0	9.0	48.5	60.0	31.5	59.0	25.0	50
CHELSEA	48.5	60.0	45.0	55.0	59.0	11.0	59.0	50.0	17.0	58.0	5.0	23.0	61.0	3.0	61.0	1.5	51
AMAZON	23.5	49.0	39.0	11.0	52.5	60.0	26.5	25.5	28.0	59.0	30.5	61.0	32.5	55.0	52.0	57.0	52
NE 80-47	39.5	56.0	53.0	40.0	55.0	50.0	11.5	28.5	38.5	60.0	35.0	41.0	54.5	44.0	33.0	60.0	53
ALENE	39.5	34.5	6.0	52.0	6.0	44.5	57.0	58.5	55.5	49.5	58.0	23.0	4.0	60.0	47.5	46.0	54
KYOSTI	48.5	48.0	61.0	30.5	23.0	55.0	48.5	28.5	45.0	39.5	51.0	48.5	51.0	35.5	37.0	55.0	55
PARK	61.5	25.0	7.5	58.5	27.5	51.5	58.0	57.0	57.0	26.0	55.0	41.0	20.5	42.5	27.0	59.0	56
KENBLUE	58.5	29.0	5.0	60.0	17.0	56.0	55.0	60.0	58.0	31.5	61.0	23.0	12.5	60.0	21.5	57.0	57
KWS PP 13-2	58.5	58.5	48.5	57.0	57.0	6.5	60.0	56.0	31.5	62.0	30.5	58.0	58.0	46.0	62.0	42.0	58
MN 2405	54.0	14.0	3.0	58.5	46.5	51.5	53.0	58.5	62.0	45.0	60.0	33.0	59.0	53.0	47.5	61.5	59
BA 78-376	61.5	51.5	19.0	61.0	11.5	53.0	62.0	61.0	59.0	39.5	59.0	60.0	1.0	60.0	27.0	61.5	60
MERION	58.5	61.0	62.0	47.0	61.0	62.0	35.5	42.0	61.0	57.0	24.0	62.0	62.0	47.0	49.0	18.5	61
SOUTH DAKOTA CERT.	54.0	51.5	10.0	62.0	27.5	49.0	61.0	62.0	60.0	61.0	62.0	14.0	52.0	62.0	60.0	50.5	62

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 KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	ID3	NJ1	MEAN
WASHINGTON	7.7	7.3	7.5
PARK	8.0	6.3	7.2
BA 78-376	7.0	6.7	6.8
NJIC	7.0	6.3	6.7
COBALT	6.7	6.3	6.5
SR 2000	6.3	6.7	6.5
PST-C-391	7.0	5.7	6.3
VOYAGER	8.3	4.3	6.3
ALENE	6.0	6.3	6.2
BAR VB 1169	6.3	6.0	6.2
BAR VB 895	7.3	5.0	6.2
PST-A7-111	7.0	5.3	6.2
798	6.0	6.0	6.0
KENBLUE	7.0	5.0	6.0
PST-C-303	7.0	5.0	6.0
ZPS-84-749	5.3	6.7	6.0
H76-1034	7.0	4.7	5.8
J-335	5.7	6.0	5.8
J-386	4.7	7.0	5.8
LIBERTY	7.0	4.7	5.8
LIVINGSTON	5.7	6.0	5.8
NE 80-47	5.0	6.7	5.8
DESTINY	6.3	5.3	5.8
RAM-1	6.3	5.3	5.8
FREEDOM	8.0	3.3	5.7
GEN-RSP	7.0	4.3	5.7
HAGA	7.3	4.0	5.7
SOUTH DAKOTA CERT.	7.3	4.0	5.7
EVB 13.703	6.0	5.0	5.5
NUSTAR	4.3	6.7	5.5
MIRACLE	6.7	4.0	5.3
BAR VB 7037	7.3	3.3	5.3
MERION	3.7	7.0	5.3
OPAL	6.7	3.7	5.2
UNIQUE (PST-C-76)	5.3	5.0	5.2
BARZAN	5.3	4.7	5.0
MN 2405	5.0	5.0	5.0
MONOPOLY	6.7	3.3	5.0
SUFFOLK	7.3	2.7	5.0
FORTUNA	6.3	3.3	4.8
PST-YQ	6.3	3.3	4.8
BAR VB 1184	6.0	3.3	4.7
NUBLUE (J-229)	5.7	3.7	4.7
KYOSTI	5.0	4.3	4.7
CHELSEA	2.7	6.3	4.5

SPRING GREENUP RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	ID3	NJ1	MEAN
ISI-21	6.0	3.0	4.5
KWS PP 13-2	3.0	6.0	4.5
AMAZON	5.7	3.0	4.3
BA 74-017	6.7	2.0	4.3
CYNTHIA	6.0	2.7	4.3
EVB 13.863	6.0	2.7	4.3
GNOME	6.0	2.3	4.2
MERIT	6.0	2.3	4.2
BRONCO	6.3	2.0	4.2
MIDNIGHT	5.3	3.0	4.2
BARMAX	6.7	1.3	4.0
CREST	5.3	2.7	4.0
SOPHIA	6.0	2.0	4.0
UNKNOWN	5.7	2.3	4.0
BARTITIA	6.0	1.7	3.8
BARON	6.0	1.0	3.5
BARSWEET	5.3	1.3	3.3
LSD VALUE	1.9	1.4	1.2



TABLE 5. GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	ID3	MO3	NJ1	OH1	PA1	MEAN
798	7.7	7.7	7.7	7.3	8.0	7.7
MIDNIGHT	8.0	7.7	7.3	7.3	8.0	7.7
CYNTHIA	8.0	7.0	8.0	7.3	7.0	7.5
OPAL	7.3	7.0	8.7	7.0	7.0	7.4
RAM-1	8.0	8.3	6.0	7.3	7.0	7.3
BARSWEEP	7.0	7.7	7.7	7.0	7.0	7.3
BAR VB 1184	7.3	7.0	7.7	7.0	7.0	7.2
KYOSTI	7.7	6.0	7.3	7.7	7.0	7.1
SR 2000	8.0	7.3	5.7	7.3	7.0	7.1
BA 74-017	7.3	6.3	7.0	7.0	7.3	7.0
EVB 13.703	7.0	7.7	6.3	7.0	6.3	6.9
MIRACLE	6.7	6.7	7.3	7.0	6.7	6.9
SOPHIA	6.3	6.7	7.0	7.3	7.0	6.9
BARON	6.7	6.7	6.3	7.3	7.0	6.8
BARTITIA	6.0	7.0	7.7	7.0	6.3	6.8
COBALT	6.7	7.0	6.3	7.0	7.0	6.8
CREST	7.0	6.3	6.3	7.3	7.0	6.8
KWS PP 13-2	7.7	6.3	5.7	7.3	7.0	6.8
NE 80-47	7.3	7.3	5.3	7.0	7.0	6.8
BARZAN	7.0	6.3	7.0	7.0	6.3	6.7
ZPS-84-749	7.3	6.3	6.0	7.0	7.0	6.7
UNKNOWN	6.7	6.7	6.0	7.0	7.0	6.7
CHELSEA	7.0	6.7	5.3	7.3	7.0	6.7
DESTINY	7.0	6.0	6.3	7.0	7.0	6.7
FORTUNA	6.7	6.7	5.7	7.3	7.0	6.7
MERION	7.3	6.7	5.3	7.0	7.0	6.7
MERIT	7.0	6.3	5.7	7.0	7.0	6.6
UNIQUE (PST-C-76)	6.3	6.7	6.0	7.0	7.0	6.6
AMAZON	5.7	6.3	6.7	7.0	7.0	6.5
J-386	7.7	6.7	4.3	7.0	7.0	6.5
J-335	7.0	6.3	6.3	6.7	6.3	6.5
LIVINGSTON	6.3	6.3	5.7	7.3	7.0	6.5
NUSTAR	7.3	6.3	5.7	7.0	6.3	6.5
GNOME	6.7	6.3	5.3	7.3	6.7	6.5
WASHINGTON	7.3	7.0	5.3	6.7	6.0	6.5
LIBERTY	6.7	6.3	5.3	7.0	6.7	6.4
BAR VB 1169	5.7	6.3	6.7	7.0	6.0	6.3
PST-C-391	6.0	6.3	5.7	6.7	6.7	6.3
NJIC	5.7	6.3	5.3	6.7	7.0	6.2
EVB 13.863	7.0	6.7	4.0	7.0	6.0	6.1
PST-A7-111	5.7	5.7	5.0	7.0	7.0	6.1
NUBLUE (J-229)	5.3	6.7	5.3	7.0	6.0	6.1
VOYAGER	4.7	7.3	4.3	7.0	7.0	6.1
BAR VB 7037	4.7	6.0	6.3	6.3	6.7	6.0
PST-C-303	5.7	6.7	4.7	6.0	7.0	6.0

TABLE 5. GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 (CONTINUED) GROWN UNDER LOW MAINTENANCE  
 1991 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN

NAME	ID3	MO3	NJ1	OH1	PA1	MEAN
ALENE	6.3	5.7	4.0	7.0	6.3	5.9
MN 2405	5.3	5.7	4.0	7.3	7.0	5.9
BRONCO	5.0	5.3	5.7	6.7	6.0	5.7
GEN-RSP	5.0	6.7	4.3	6.0	6.7	5.7
H76-1034	6.0	5.7	4.0	7.0	6.0	5.7
BAR VB 895	4.7	6.3	5.3	6.0	6.0	5.7
KENBLUE	4.3	5.3	3.7	7.3	7.0	5.5
PARK	5.3	5.7	3.0	7.0	6.3	5.5
SOUTH DAKOTA CERT.	4.3	5.3	3.7	7.0	7.0	5.5
BA 78-376	5.0	6.0	3.0	6.7	6.3	5.4
FREEDOM	4.3	6.0	4.3	6.3	6.0	5.4
SUFFOLK	4.0	5.3	5.0	6.3	6.3	5.4
ISI-21	4.7	6.3	2.7	6.0	6.7	5.3
PST-YQ	4.7	6.0	3.0	6.0	6.3	5.2
BARMAX	3.7	6.0	4.0	6.0	6.0	5.1
HAGA	4.0	5.0	4.3	6.0	6.3	5.1
MONOPOLY	2.7	5.3	3.7	6.0	6.0	4.7
LSD VALUE	1.6	1.1	1.2	0.6	0.5	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 KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	ID3	MO3	MEAN
MN 2405	9.0	8.7	8.8
CYNTHIA	8.3	8.3	8.3
EVB 13.863	8.0	8.0	8.0
KENBLUE	9.0	7.0	8.0
PST-A7-111	8.7	7.3	8.0
ZPS-84-749	9.0	7.0	8.0
SOUTH DAKOTA CERT.	8.3	7.3	7.8
BARSWEEP	8.3	7.0	7.7
AMAZON	8.0	7.3	7.7
OPAL	8.0	7.3	7.7
SOPHIA	8.0	7.3	7.7
BAR VB 7037	7.7	7.3	7.5
BARTITIA	8.0	7.0	7.5
BARZAN	7.7	7.3	7.5
GEN-RSP	7.3	7.7	7.5
MIDNIGHT	8.3	6.7	7.5
UNIQUE (PST-C-76)	7.7	7.3	7.5
BA 78-376	8.3	6.3	7.3
EVB 13.703	7.0	7.7	7.3
MIRACLE	8.0	6.7	7.3
PARK	8.0	6.7	7.3
ALENE	7.7	6.7	7.2
NUBLUE (J-229)	7.7	6.7	7.2
BARMAX	7.0	7.3	7.2
VOYAGER	7.3	7.0	7.2
WASHINGTON	7.3	7.0	7.2
J-386	7.7	6.3	7.0
KYOSTI	7.7	6.3	7.0
LIBERTY	7.3	6.7	7.0
NE 80-47	7.0	7.0	7.0
NUSTAR	7.7	6.3	7.0
PST-YQ	7.0	7.0	7.0
RAM-1	7.3	6.7	7.0
FREEDOM	6.7	7.0	6.8
HAGA	6.7	7.0	6.8
PST-C-391	7.0	6.7	6.8
SUFFOLK	7.0	6.7	6.8
BAR VB 1184	7.3	6.3	6.8
UNKNOWN	7.3	6.3	6.8
BAR VB 1169	7.3	6.0	6.7
CHELSEA	7.3	6.0	6.7
CREST	7.0	6.3	6.7
H76-1034	7.0	6.3	6.7
J-335	7.0	6.3	6.7
NJIC	7.3	6.0	6.7

LEAF TEXTURE RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE

NAME	ID3	MO3	MEAN
BAR VB 895	6.7	6.3	6.5
COBALT	6.7	6.3	6.5
ISI-21	6.3	6.7	6.5
MERION	6.0	6.7	6.3
PST-C-303	5.7	7.0	6.3
MONOPOLY	6.3	6.3	6.3
BARON	5.7	6.7	6.2
KWS PP 13-2	6.7	5.7	6.2
BA 74-017	6.3	6.0	6.2
DESTINY	6.0	6.3	6.2
LIVINGSTON	6.0	6.3	6.2
FORTUNA	6.0	6.0	6.0
GNOME	6.0	5.7	5.8
MERIT	5.7	6.0	5.8
BRONCO	5.0	5.3	5.2
SR 2000	5.0	5.3	5.2
798	4.0	6.0	5.0
LSD VALUE	1.1	1.0	0.7

TABLE 7. WINTER COLOR RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

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

NAME	OR1	UB1	MEAN
CHELSEA	6.7	7.0	6.8
BARZAN	5.7	7.7	6.7
RAM-1	5.7	7.7	6.7
SR 2000	7.3	6.0	6.7
CYNTHIA	6.0	7.0	6.5
MERION	7.3	5.7	6.5
LIVINGSTON	6.7	6.0	6.3
J-386	5.7	6.7	6.2
PST-A7-111	5.7	6.7	6.2
MIDNIGHT	5.0	7.3	6.2
PST-C-303	7.3	5.0	6.2
COBALT	7.3	4.7	6.0
KWS PP 13-2	5.7	6.3	6.0
MIRACLE	6.0	6.0	6.0
PST-C-391	6.7	5.3	6.0
EVB 13.863	5.0	6.0	5.5
LIBERTY	5.7	5.3	5.5
NE 80-47	6.3	4.7	5.5
NUSTAR	5.3	5.7	5.5
WASHINGTON	6.7	4.3	5.5
DESTINY	4.7	6.0	5.3
SUFFOLK	5.7	5.0	5.3
UNIQUE (PST-C-76)	6.7	4.0	5.3
UNKNOWN	5.3	5.3	5.3
BAR VB 1169	5.7	4.7	5.2
MERIT	4.7	5.7	5.2
SOPHIA	3.3	7.0	5.2
798	5.3	5.0	5.2
EVB 13.703	5.0	5.3	5.2
FREEDOM	4.7	5.3	5.0
J-335	6.0	4.0	5.0
BARMAX	5.0	4.7	4.8
BARSWEEP	4.7	5.0	4.8
OPAL	4.0	5.7	4.8
ALENE	3.7	6.0	4.8
BRONCO	3.7	6.0	4.8
FORTUNA	4.7	4.7	4.7
NUBLUE (J-229)	4.7	4.7	4.7
BAR VB 1184	5.0	4.3	4.7
MONOPOLY	4.3	5.0	4.7
NJIC	5.3	4.0	4.7
ZPS-84-749	4.0	5.3	4.7
BAR VB 895	3.7	5.3	4.5
BARTITIA	4.3	4.7	4.5
BARON	4.7	4.0	4.3

WINTER COLOR RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

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

NAME	OR1	UB1	MEAN
HAGA	4.7	4.0	4.3
CREST	4.3	4.3	4.3
GNOME	4.3	4.3	4.3
MN 2405	2.3	6.3	4.3
PST-YQ	4.3	4.3	4.3
AMAZON	4.0	4.5	4.3
BA 74-017	3.7	4.7	4.2
H76-1034	3.0	5.3	4.2
BAR VB 7037	4.3	3.7	4.0
GEN-RSP	4.0	4.0	4.0
KENBLUE	2.7	5.3	4.0
VOYAGER	3.7	4.0	3.8
SOUTH DAKOTA CERT.	2.0	5.3	3.7
PARK	3.3	3.3	3.3
ISI-21	2.7	4.0	3.3
KYOSTI	3.0	2.7	2.8
BA 78-376	2.7	2.3	2.5
LSD VALUE	1.2	1.2	0.8

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

TABLE 8. SEEDLING VIGOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	CO1	MO3	NJ1	OR3	UB1	MEAN
ISI-21	7.7	7.3	8.3	5.3	8.7	7.5
BARMAX	6.7	8.3	8.0	5.3	9.0	7.5
BAR VB 895	6.7	7.7	8.0	6.0	8.3	7.3
SUFFOLK	6.0	8.3	8.0	5.7	8.7	7.3
MONOPOLY	7.3	7.0	8.0	5.3	9.0	7.3
PST-YQ	7.0	8.3	7.3	5.3	8.3	7.3
VOYAGER	5.7	8.0	8.7	5.0	9.0	7.3
KENBLUE	7.3	7.0	8.3	4.7	9.0	7.3
BARTITIA	6.3	7.7	8.0	5.7	8.3	7.2
OPAL	6.0	7.3	8.3	6.0	8.0	7.1
PARK	7.3	6.7	8.0	5.3	8.3	7.1
BRONCO	6.3	8.0	7.7	4.7	8.7	7.1
FREEDOM	4.7	8.0	8.3	5.7	8.7	7.1
HAGA	6.0	7.7	7.3	5.7	8.7	7.1
MN 2405	7.0	6.7	7.7	5.3	8.7	7.1
ALENE	6.7	6.3	8.7	5.0	8.7	7.1
BA 78-376	6.3	6.3	8.7	5.0	9.0	7.1
BARON	4.7	7.7	8.7	5.3	8.7	7.0
ZPS-84-749	6.3	7.7	8.0	5.0	8.0	7.0
H76-1034	6.3	7.0	8.3	4.3	8.7	6.9
GNOME	6.0	8.7	7.7	4.7	7.3	6.9
LIBERTY	6.0	8.0	7.7	5.7	7.0	6.9
MERIT	6.0	6.7	7.7	5.7	8.3	6.9
UNKNOWN	5.0	7.7	7.3	5.7	8.3	6.8
CREST	5.7	7.7	7.0	5.0	8.3	6.7
FORTUNA	4.3	8.0	7.7	5.3	8.3	6.7
NJIC	5.7	7.0	7.0	5.3	8.7	6.7
SOUTH DAKOTA CERT.	6.7	5.3	7.7	5.0	8.7	6.7
AMAZON	5.3	7.7	7.3	5.3	7.7	6.7
CYNTHIA	6.0	7.3	6.3	5.3	8.3	6.7
KYOSTI	5.3	7.3	8.0	4.7	8.0	6.7
MIRACLE	5.0	7.7	7.3	5.3	8.0	6.7
DESTINY	5.7	7.7	6.7	5.3	6.7	6.4
EVB 13.863	5.0	7.7	6.3	4.7	8.3	6.4
GEN-RSP	4.7	8.0	5.7	5.3	8.3	6.4
NUBLUE (J-229)	5.3	7.3	6.3	4.7	8.3	6.4
PST-C-391	5.7	9.0	5.0	5.7	6.7	6.4
EVB 13.703	5.0	7.7	6.0	5.0	8.0	6.3
BAR VB 1184	6.3	7.0	3.7	6.0	8.3	6.3
PST-A7-111	6.7	6.3	7.0	5.3	6.0	6.3
UNIQUE (PST-C-76)	6.0	7.3	5.3	5.3	7.0	6.2
BAR VB 7037	6.0	8.0	4.7	5.0	7.0	6.1
BA 74-017	5.7	7.3	4.7	4.3	8.7	6.1
WASHINGTON	6.3	8.0	2.3	5.3	8.7	6.1
BAR VB 1169	6.7	7.7	1.7	5.3	9.0	6.1

TABLE 8. SEEDLING VIGOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
(CONTINUED) GROWN UNDER LOW MAINTENANCE  
1991 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR

NAME	CO1	MO3	NJ1	OR3	UB1	MEAN
MIDNIGHT	5.7	6.7	5.7	5.3	7.0	6.1
PST-C-303	5.7	7.7	4.7	5.7	6.3	6.0
RAM-1	5.0	7.0	3.7	5.3	9.0	6.0
J-335	6.3	7.3	2.7	5.3	8.0	5.9
J-386	6.7	6.3	2.7	5.3	8.3	5.9
798	4.0	7.7	4.3	5.3	7.7	5.8
BARSWEET	4.3	6.3	6.3	5.0	7.0	5.8
NE 80-47	4.7	7.7	2.3	5.3	8.0	5.6
SOPHIA	6.0	7.7	3.3	4.7	6.3	5.6
SR 2000	6.7	6.3	2.0	5.0	8.0	5.6
BARZAN	4.0	7.0	4.0	5.3	7.3	5.5
COBALT	5.7	7.3	2.0	5.3	7.3	5.5
LIVINGSTON	6.0	7.0	4.3	5.0	5.0	5.5
NUSTAR	6.0	6.0	1.7	5.3	7.7	5.3
CHELSEA	5.3	5.0	1.0	4.7	7.0	4.6
KWS PP 13-2	4.7	5.0	1.0	5.0	3.7	3.9
MERION	4.0	5.7	1.0	5.0	1.3	3.4
LSD VALUE	2.1	1.8	1.2	0.9	1.8	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 9. SPRING DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	MO3	OH1	MEAN
BARMAX	9.0	7.7	8.3
ISI-21	9.0	7.0	8.0
LIBERTY	9.0	7.0	8.0
PST-YQ	9.0	7.0	8.0
BRONCO	9.0	6.7	7.8
RAM-1	9.0	6.7	7.8
BAR VB 7037	8.7	6.7	7.7
BAR VB 895	8.7	6.7	7.7
BARTITIA	9.0	6.3	7.7
FORTUNA	9.0	6.3	7.7
HAGA	8.7	6.7	7.7
PST-C-303	8.7	6.7	7.7
VOYAGER	9.0	6.3	7.7
BAR VB 1184	9.0	6.0	7.5
BARSWEEP	9.0	6.0	7.5
CYNTHIA	9.0	6.0	7.5
EVB 13.703	9.0	6.0	7.5
FREEDOM	9.0	6.0	7.5
GEN-RSP	9.0	6.0	7.5
GNOME	9.0	6.0	7.5
KYOSTI	9.0	6.0	7.5
MERIT	9.0	6.0	7.5
MONOPOLY	8.3	6.7	7.5
OPAL	9.0	6.0	7.5
PST-C-391	9.0	6.0	7.5
ZPS-84-749	9.0	6.0	7.5
798	9.0	5.7	7.3
BAR VB 1169	9.0	5.7	7.3
BARON	9.0	5.7	7.3
BARZAN	9.0	5.7	7.3
EVB 13.863	9.0	5.7	7.3
KENBLUE	8.3	6.3	7.3
NE 80-47	9.0	5.7	7.3
SOPHIA	9.0	5.7	7.3
UNIQUE (PST-C-76)	9.0	5.7	7.3
BA 78-376	8.7	6.0	7.3
MIDNIGHT	8.7	6.0	7.3
MIRACLE	8.7	6.0	7.3
MN 2405	8.7	6.0	7.3
WASHINGTON	8.7	6.0	7.3
DESTINY	8.3	6.0	7.2
J-335	8.3	6.0	7.2
SR 2000	8.3	6.0	7.2
UNKNOWN	8.3	6.0	7.2
BA 74-017	9.0	5.3	7.2

SPRING DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 GROWN UNDER LOW MAINTENANCE  
 1991 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	MO3	OH1	MEAN
COBALT	8.7	5.7	7.2
NJIC	8.7	5.7	7.2
NUBLUE (J-229)	8.7	5.7	7.2
NUSTAR	8.7	5.7	7.2
PARK	8.7	5.7	7.2
SUFFOLK	8.7	5.7	7.2
AMAZON	8.7	5.3	7.0
CREST	8.7	5.3	7.0
H76-1034	8.3	5.7	7.0
PST-A7-111	8.3	5.7	7.0
CHELSEA	8.3	5.3	6.8
J-386	8.0	5.7	6.8
LIVINGSTON	8.0	5.3	6.7
KWS PP 13-2	8.7	4.3	6.5
ALENE	7.0	5.7	6.3
MERION	8.0	4.7	6.3
SOUTH DAKOTA CERT.	6.3	5.0	5.7
LSD VALUE	0.8	1.1	0.7

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

TABLE 10. SUMMER DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 1/				
NAME	ID3	MO3	OH1	MEAN
CYNTHIA	8.0	8.3	6.7	7.7
OPAL	9.0	7.3	6.7	7.7
BARMAX	7.7	7.0	7.3	7.3
VOYAGER	8.0	6.7	7.3	7.3
BAR VB 7037	8.3	7.0	6.3	7.2
GEN-RSP	8.3	6.7	6.7	7.2
ISI-21	6.7	8.0	7.0	7.2
RAM-1	8.0	6.0	7.7	7.2
BAR VB 1184	8.0	7.3	6.3	7.2
AMAZON	8.3	7.0	6.0	7.1
BAR VB 1169	7.3	8.3	5.7	7.1
HAGA	7.3	7.0	7.0	7.1
BARSWEEP	8.3	6.7	6.0	7.0
EVB 13.703	8.0	6.7	6.3	7.0
J-335	7.0	7.3	6.7	7.0
MIDNIGHT	7.3	7.7	6.0	7.0
NJIC	8.0	6.0	7.0	7.0
NUSTAR	8.0	6.7	6.3	7.0
PST-YQ	7.3	6.7	7.0	7.0
EVB 13.863	9.0	5.7	6.0	6.9
GNOME	7.0	7.0	6.7	6.9
J-386	8.3	6.0	6.3	6.9
LIBERTY	7.3	6.7	6.7	6.9
SOPHIA	7.7	7.0	6.0	6.9
ZPS-84-749	7.7	6.7	6.3	6.9
FREEDOM	7.0	6.7	6.7	6.8
KYOSTI	8.3	5.3	6.7	6.8
MERIT	7.0	6.7	6.7	6.8
MN 2405	7.7	6.0	6.7	6.8
KENBLUE	7.7	6.3	6.3	6.8
NUBLUE (J-229)	7.7	6.3	6.3	6.8
BARON	6.7	6.3	7.0	6.7
CREST	7.0	7.0	6.0	6.7
MIRACLE	7.7	6.3	6.0	6.7
FORTUNA	7.3	6.7	5.7	6.6
MONOPOLY	6.7	6.0	7.0	6.6
PARK	6.7	6.0	7.0	6.6
UNIQUE (EST-C-76)	7.0	5.7	7.0	6.6
WASHINGTON	7.0	6.0	6.7	6.6
UNKNOWN	7.0	6.3	6.3	6.6
BARTITIA	7.7	5.7	6.0	6.4
BARZAN	7.0	6.7	5.7	6.4
SUFFOLK	7.0	5.7	6.7	6.4
BAR VB 895	6.3	6.3	6.7	6.4
PST-A7-111	6.7	6.3	6.3	6.4

SUMMER DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	ID3	MO3	OH1	MEAN
BA 74-017	6.7	6.3	6.0	6.3
BRONCO	5.7	6.7	6.7	6.3
COBALT	6.7	6.3	6.0	6.3
DESTINY	5.3	6.7	7.0	6.3
PST-C-303	7.0	5.0	7.0	6.3
PST-C-391	6.7	5.7	6.7	6.3
798	5.7	7.3	5.7	6.2
LIVINGSTON	6.3	6.3	6.0	6.2
BA 78-376	7.0	4.7	6.7	6.1
H76-1034	6.7	4.7	7.0	6.1
NE 80-47	6.7	5.7	6.0	6.1
ALENE	7.0	5.0	6.0	6.0
SOUTH DAKOTA CERT.	6.0	6.7	5.0	5.9
MERION	6.3	6.3	5.0	5.9
SR 2000	5.0	6.3	5.7	5.7
CHELSEA	6.3	4.7	5.3	5.4
KWS PP 13-2	5.7	5.0	4.7	5.1
LSD VALUE	1.3	1.9	1.5	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. FALL DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	MO3	MEAN
MIDNIGHT	9.0	9.0
PST-C-303	9.0	9.0
SR 2000	9.0	9.0
COBALT	8.7	8.7
CYNTHIA	8.7	8.7
GEN-RSP	8.7	8.7
HAGA	8.7	8.7
PST-YQ	8.7	8.7
SOPHIA	8.7	8.7
VOYAGER	8.7	8.7
798	8.3	8.3
BAR VB 1169	8.3	8.3
BAR VB 895	8.3	8.3
BARMAX	8.3	8.3
EVB 13.703	8.3	8.3
LIVINGSTON	8.3	8.3
UNIQUE (PST-C-76)	8.3	8.3
BA 74-017	8.0	8.0
BARON	8.0	8.0
EVB 13.863	8.0	8.0
FREEDOM	8.0	8.0
GNOME	8.0	8.0
ISI-21	8.0	8.0
LIBERTY	8.0	8.0
MERIT	8.0	8.0
MIRACLE	8.0	8.0
NE 80-47	8.0	8.0
NJIC	8.0	8.0
NUBLUE (J-229)	8.0	8.0
WASHINGTON	8.0	8.0
BARTITIA	7.7	7.7
BARZAN	7.7	7.7
CREST	7.7	7.7
FORTUNA	7.7	7.7
MN 2405	7.7	7.7
MONOPOLY	7.7	7.7
PST-C-391	7.7	7.7
UNKNOWN	7.7	7.7
ZES-84-749	7.7	7.7
BARSWEEP	7.3	7.3
BRONCO	7.3	7.3
DESTINY	7.3	7.3
OPAL	7.3	7.3
PARK	7.3	7.3
RAM-1	7.3	7.3

FALL DENSITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN UNDER LOW MAINTENANCE  
1991 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY

NAME	MO3	MEAN
ALENE	7.0	7.0
AMAZON	7.0	7.0
BA 78-376	7.0	7.0
BAR VB 1184	7.0	7.0
BAR VB 7037	7.0	7.0
J-335	7.0	7.0
KYOSTI	7.0	7.0
MERION	7.0	7.0
NUSTAR	7.0	7.0
PST-A7-111	7.0	7.0
SOUTH DAKOTA CERT.	7.0	7.0
SUFFOLK	7.0	7.0
H76-1034	6.7	6.7
J-386	6.7	6.7
KENBLUE	6.7	6.7
KWS PP 13-2	5.7	5.7
CHELSEA	5.3	5.3
LSD VALUE	1.5	1.5

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

TABLE 12. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF KENTUCKY  
BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 1/					
NAME	IL2	MO3	PA1	VA6	MEAN
BARMAX	82.7	95.0	95.7	85.0	89.6
PST-YQ	85.0	95.0	85.7	78.3	86.0
BA 78-376	78.3	91.7	86.7	86.7	85.8
KENBLUE	76.7	90.0	89.0	85.0	85.2
FREEDOM	66.7	95.0	88.3	83.3	83.3
PARK	68.3	93.3	88.3	83.3	83.3
ALENE	86.3	80.0	90.7	71.7	82.2
CYNTHIA	61.7	95.0	88.3	78.3	80.8
VOYAGER	61.0	93.3	93.3	73.3	80.3
HAGA	60.0	95.0	87.3	78.3	80.2
ISI-21	63.3	95.0	86.7	71.7	79.2
ZPS-84-749	55.0	95.0	86.3	80.0	79.1
MONOPOLY	58.3	95.0	95.0	63.3	77.9
GEN-RSP	73.3	93.3	88.3	50.0	76.3
H76-1034	60.3	85.0	88.3	68.3	75.5
J-335	64.0	91.7	83.3	61.7	75.2
BAR VB 895	53.3	88.3	92.3	65.0	74.8
OPAL	45.0	95.0	83.3	75.0	74.6
WASHINGTON	46.7	95.0	86.7	70.0	74.6
BRONCO	60.0	93.3	91.7	51.7	74.2
EVB 13.863	42.7	93.3	85.7	73.3	73.8
SUFFOLK	56.7	76.7	92.0	68.3	73.4
PST-C-303	50.0	91.7	89.0	60.0	72.7
MN 2405	63.3	95.0	88.3	40.0	71.7
BAR VB 1169	56.7	91.7	84.0	53.3	71.4
MERIT	36.7	95.0	85.0	66.7	70.8
KYOSTI	54.0	91.7	85.0	51.7	70.6
GNOME	35.0	93.3	87.3	66.7	70.6
LIVINGSTON	35.0	91.7	85.0	68.3	70.0
798	45.3	93.3	86.7	53.3	69.7
J-386	45.7	95.0	85.0	50.0	68.9
NJIC	34.0	93.3	83.3	65.0	68.9
BARTITIA	23.0	95.0	90.0	65.0	68.3
SR 2000	45.7	95.0	79.0	53.3	68.3
LIBERTY	41.7	93.3	85.7	51.7	68.1
RAM-1	29.3	93.3	86.7	61.7	67.8
COBALT	21.7	95.0	89.0	65.0	67.7
PST-A7-111	23.0	91.7	85.7	70.0	67.6
PST-C-391	44.3	90.0	82.3	53.3	67.5
SOUTH DAKOTA CERT.	73.0	81.7	88.3	26.7	67.4
UNKNOWN	35.0	91.7	86.7	53.3	66.7
CREST	24.7	93.3	90.0	58.3	66.6
BARON	13.0	95.0	85.0	68.3	65.3
MIDNIGHT	18.3	93.3	80.7	68.3	65.2
NUSTAR	17.3	95.0	85.0	61.7	64.8

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF KENTUCKY  
 BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS

NAME	IL2	MO3	PA1	VA6	MEAN
MIRACLE	27.3	93.3	86.7	50.0	64.3
BAR VB 1184	11.7	93.3	85.0	65.0	63.8
DESTINY	26.7	95.0	81.7	51.7	63.8
NE 80-47	20.7	91.7	87.3	55.0	63.7
EVB 13.703	38.7	93.3	89.0	33.3	63.6
UNIQUE (PST-C-76)	12.0	93.3	81.7	66.7	63.4
BARSWEEP	17.7	95.0	86.7	51.7	62.8
SOPHIA	26.0	93.3	83.3	45.0	61.9
BA 74-017	30.0	91.7	90.0	35.0	61.7
FORTUNA	15.7	93.3	88.3	46.7	61.0
BARZAN	27.0	95.0	88.3	33.3	60.9
BAR VB 7037	16.0	93.3	88.3	43.3	60.3
AMAZON	30.0	93.3	60.0	51.7	58.8
NUBLUE (J-229)	8.7	95.0	86.3	35.0	56.3
CHELSEA	19.3	93.3	86.7	18.3	54.4
KWS PP 13-2	10.3	95.0	83.3	21.7	52.6
MERION	10.7	90.0	30.0	46.7	44.3
LSD VALUE	43.3	8.6	11.4	28.8	13.5

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 13. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF KENTUCKY  
BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 1/

NAME	MO3	PA1	VA6	MEAN
ISI-21	95.0	93.3	95.0	94.4
VOYAGER	91.7	95.0	96.0	94.2
BAR VB 895	95.0	95.0	91.7	93.9
BRONCO	95.0	95.0	91.7	93.9
BARMAX	93.3	95.0	93.3	93.9
HAGA	95.0	91.7	94.3	93.7
MONOPOLY	93.3	95.0	90.0	92.8
PARK	95.0	93.3	90.0	92.8
WASHINGTON	93.3	91.7	93.3	92.8
KENBLUE	93.3	88.3	94.0	91.9
BAR VB 7037	95.0	93.3	86.7	91.7
BARTITIA	91.7	91.7	91.7	91.7
BARZAN	95.0	95.0	85.0	91.7
CREST	95.0	91.7	88.3	91.7
CYNTHIA	95.0	91.7	88.3	91.7
FORTUNA	95.0	93.3	86.7	91.7
FREEDOM	93.3	88.3	93.3	91.7
MERIT	95.0	88.3	91.7	91.7
PST-C-303	95.0	95.0	85.0	91.7
PST-YQ	93.3	91.7	90.0	91.7
MN 2405	91.7	95.0	86.7	91.1
COBALT	93.3	93.3	86.7	91.1
PST-A7-111	90.0	93.3	90.0	91.1
NE 80-47	93.3	91.7	86.7	90.6
SUFFOLK	88.3	93.3	89.0	90.2
BARON	95.0	86.7	88.3	90.0
H76-1034	90.0	91.7	88.3	90.0
MIRACLE	93.3	93.3	83.3	90.0
NJIC	93.3	85.0	91.7	90.0
RAM-1	88.3	88.3	93.3	90.0
UNIQUE (PST-C-76)	95.0	85.0	90.0	90.0
PST-C-391	95.0	81.7	91.7	89.4
ZPS-84-749	91.7	86.7	90.0	89.4
BAR VB 1169	95.0	88.3	85.0	89.4
GEN-RSP	95.0	88.3	85.0	89.4
GNOME	93.3	86.7	88.3	89.4
KYOSTI	91.7	88.3	88.3	89.4
BA 74-017	95.0	90.0	81.7	88.9
LIVINGSTON	90.0	85.0	91.7	88.9
SOPHIA	95.0	85.0	86.7	88.9
UNKNOWN	90.0	91.7	85.0	88.9
LIBERTY	93.3	85.0	88.3	88.9
OPAL	93.3	83.3	90.0	88.9
NUBLUE (J-229)	95.0	86.7	83.3	88.3
EVB 13.863	85.0	86.7	91.7	87.8

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF KENTUCKY  
 BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS

NAME	MO3	PA1	VA6	MEAN
ALENE	80.0	95.0	86.7	87.2
BAR VB 1184	85.0	88.3	88.3	87.2
J-335	83.3	88.3	90.0	87.2
J-386	88.3	85.0	88.3	87.2
798	95.0	80.0	85.0	86.7
BARSWEEP	90.0	85.0	85.0	86.7
EVB 13.703	86.7	91.7	81.7	86.7
MIDNIGHT	91.7	78.3	90.0	86.7
NUSTAR	80.0	85.0	90.0	85.0
DESTINY	83.3	85.0	85.0	84.4
BA 78-376	71.7	88.3	90.0	83.3
SR 2000	78.3	85.0	83.3	82.2
SOUTH DAKOTA CERT.	76.7	93.3	75.0	81.7
AMAZON	90.0	66.7	85.0	80.6
CHELSEA	83.3	86.7	68.3	79.4
MERION	91.7	46.7	85.0	74.4
KWS PP 13-2	61.7	86.7	63.3	70.6
LSD VALUE	13.8	12.1	8.2	6.7

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 14. PERCENT LIVING GROUND COVER (FALL) RATINGS OF KENTUCKY  
 BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 1/

NAME	MO3	MEAN
BA 74-017	99.0	99.0
BAR VB 1169	99.0	99.0
BAR VB 895	99.0	99.0
COBALT	99.0	99.0
CREST	99.0	99.0
HAGA	99.0	99.0
MIDNIGHT	99.0	99.0
MIRACLE	99.0	99.0
NUBLUE (J-229)	99.0	99.0
PST-YQ	99.0	99.0
UNIQUE (PST-C-76)	99.0	99.0
798	97.7	97.7
BAR VB 7037	97.7	97.7
BARMAX	97.7	97.7
BARON	97.7	97.7
BARZAN	97.7	97.7
BRONCO	97.7	97.7
CYNTHIA	97.7	97.7
EVB 13.703	97.7	97.7
FREEDOM	97.7	97.7
GEN-RSP	97.7	97.7
ISI-21	97.7	97.7
LIBERTY	97.7	97.7
MERIT	97.7	97.7
MONOPOLY	97.7	97.7
NE 80-47	97.7	97.7
NJIC	97.7	97.7
OPAL	97.7	97.7
PST-C-303	97.7	97.7
UNKNOWN	97.7	97.7
VOYAGER	97.7	97.7
WASHINGTON	97.7	97.7
FORTUNA	96.3	96.3
GNOME	96.3	96.3
J-335	96.3	96.3
KENBLUE	96.3	96.3
KYGSTI	96.3	96.3
LIVINGSTON	96.3	96.3
PARK	96.3	96.3
PST-A7-111	96.3	96.3
PST-C-391	96.3	96.3
SOHIA	96.3	96.3
ZPS-84-749	96.3	96.3
AMAZON	96.0	96.0
BARTITIA	96.0	96.0

PERCENT LIVING GROUND COVER (FALL) RATINGS OF KENTUCKY  
 BLUEGRASS CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS

NAME	MO3	MEAN
DESTINY	96.0	96.0
J-386	95.0	95.0
MERION	95.0	95.0
MN 2405	95.0	95.0
NUSTAR	95.0	95.0
RAM-1	95.0	95.0
BARSWEEP	94.7	94.7
BAR VB 1184	94.3	94.3
EVV 13,863	93.3	93.3
SOUTH DAKOTA CERT.	91.7	91.7
H76-1034	91.3	91.3
CHELSEA	90.0	90.0
ALENE	89.7	89.7
SR 2000	89.3	89.3
SUFFOLK	89.3	89.3
KWS PP 13-2	88.0	88.0
BA 78-376	84.7	84.7
LSD VALUE	7.9	7.9

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 15. FROST TOLERANCE RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 1/

NAME	ID3	MO3	MEAN
SR 2000	8.3	8.3	8.3
MIDNIGHT	8.3	8.0	8.2
MIRACLE	8.0	7.7	7.8
EVB 13.703	8.0	7.3	7.7
BARTITIA	7.3	7.7	7.5
RAM-1	7.0	8.0	7.5
BAR VB 1184	8.0	6.7	7.3
NJIC	6.0	8.7	7.3
DESTINY	7.3	6.7	7.0
KWS PP 13-2	8.0	6.0	7.0
LIVINGSTON	6.7	7.3	7.0
PST-C-303	6.7	7.3	7.0
BARZAN	6.7	7.0	6.8
NUSTAR	6.7	7.0	6.8
798	7.3	6.3	6.8
SUFFOLK	6.3	7.3	6.8
NE 80-47	6.7	6.7	6.7
ALENE	6.3	6.7	6.5
COBALT	6.7	6.3	6.5
FREEDOM	5.7	7.3	6.5
CHELSEA	6.7	6.0	6.3
VOYAGER	5.0	7.7	6.3
FORTUNA	7.3	5.3	6.3
J-386	6.7	5.7	6.2
LIBERTY	5.7	6.7	6.2
BARON	6.3	6.0	6.2
UNKNOWN	7.0	5.3	6.2
CYNTHIA	6.7	5.3	6.0
MERIT	6.7	5.3	6.0
SOPHIA	6.7	5.3	6.0
BARSWEET	5.7	6.0	5.8
MERION	5.0	6.7	5.8
PST-YQ	5.0	6.7	5.8
WASHINGTON	4.0	7.7	5.8
BAR VB 895	6.3	5.3	5.8
HAGA	5.0	6.3	5.7
PST-C-391	5.3	6.0	5.7
BRONCO	5.3	5.7	5.5
CREST	6.0	5.0	5.5
BAR VB 1169	6.0	4.7	5.3
BARMAX	4.0	6.7	5.3
J-335	5.7	5.0	5.3
UNIQUE (PST-C-76)	4.7	6.0	5.3
ZPS-84-749	5.0	5.7	5.3
GNOME	4.3	6.3	5.3

FROST TOLERANCE RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY

NAME	ID3	MO3	MEAN
NUBLUE (J-229)	4.3	6.3	5.3
AMAZON	5.3	5.0	5.2
BA 74-017	5.3	5.0	5.2
MONOPOLY	4.0	6.3	5.2
PST-A7-111	5.0	5.3	5.2
EVB 13.863	4.0	6.0	5.0
H76-1034	4.3	5.7	5.0
ISI-21	4.7	5.0	4.8
SOUTH DAKOTA CERT.	4.3	5.3	4.8
BAR VB 7037	4.3	4.7	4.5
KENBLUE	4.0	5.0	4.5
GEN-RSP	3.3	5.3	4.3
KYOSTI	4.0	4.3	4.2
OPAL	4.0	4.3	4.2
MN 2405	2.3	5.0	3.7
PARK	2.3	4.7	3.5
BA 78-376	1.0	4.7	2.8
LSD VALUE	2.5	1.6	1.4

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 16. DROUGHT TOLERANCE (DORMANCY) RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 1/

NAME	IL2	UB1	MEAN
ZPS-84-749	6.0	5.3	5.7
BAR VB 7037	4.0	6.7	5.3
UNIQUE (PST-C-76)	4.3	6.3	5.3
LIVINGSTON	4.7	5.7	5.2
MIDNIGHT	3.7	6.7	5.2
PST-A7-111	4.0	6.3	5.2
SOPHIA	3.0	7.3	5.2
SR 2000	4.3	6.0	5.2
BA 74-017	3.7	6.3	5.0
MONOPOLY	4.3	5.7	5.0
OPAL	5.0	5.0	5.0
RAM-1	4.3	5.7	5.0
798	4.0	5.7	4.8
H76-1034	5.0	4.7	4.8
MERIT	4.0	5.7	4.8
NUSTAR	3.0	6.7	4.8
ISI-21	3.3	6.3	4.8
J-335	3.7	6.0	4.8
BARZAN	3.3	6.0	4.7
J-386	3.7	5.7	4.7
NUBLUE (J-229)	3.7	5.7	4.7
GNOME	4.0	5.3	4.7
NJIC	3.0	6.3	4.7
CYNTHIA	4.7	4.3	4.5
DESTINY	3.3	5.7	4.5
EVB 13.863	3.3	5.7	4.5
GEN-RSP	4.3	4.7	4.5
HAGA	3.7	5.3	4.5
MERION	3.0	6.0	4.5
PST-YQ	4.0	5.0	4.5
CHELSEA	3.0	5.7	4.3
KWS PP 13-2	3.0	5.7	4.3
BA 78-376	3.3	5.3	4.3
BARMAX	4.3	4.3	4.3
BARSWEEP	3.3	5.3	4.3
BARTITIA	3.7	4.7	4.2
COBALT	3.7	4.7	4.2
FREEDOM	3.7	4.7	4.2
SOUTH DAKOTA CERT.	2.7	5.7	4.2
UNKNOWN	3.3	5.0	4.2
BAR VB 1184	4.0	4.3	4.2
CREST	4.3	4.0	4.2
EVB 13.703	3.0	5.3	4.2
NE 80-47	3.0	5.3	4.2
PST-C-391	4.0	4.3	4.2

DROUGHT TOLERANCE (DORMANCY) RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY

NAME	IL2	UB1	MEAN
ALENE	3.3	4.7	4.0
BARON	3.0	4.7	3.8
BAR VB 1169	3.3	4.3	3.8
FORTUNA	2.7	5.0	3.8
VOYAGER	3.3	4.3	3.8
AMAZON	2.7	4.7	3.7
PARK	2.7	4.7	3.7
BRONCO	3.7	3.7	3.7
KYOSTI	3.0	4.3	3.7
WASHINGTON	3.0	4.3	3.7
KENBLUE	3.0	4.0	3.5
PST-C-303	3.0	4.0	3.5
BAR VB 895	3.0	3.7	3.3
LIBERTY	3.7	3.0	3.3
MIRACLE	2.3	4.3	3.3
SUFFOLK	3.0	3.7	3.3
MN 2405	2.3	2.7	2.5
LSD VALUE	1.8	2.0	1.4

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 17. LEAF SPOT RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

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

NAME	ID3	OR1	PA1	UB1	MEAN
BARZAN	8.3	7.0	9.0	8.0	8.1
SR 2000	8.7	7.3	8.7	7.7	8.1
COBALT	7.3	7.3	9.0	8.3	8.0
BAR VB 1184	7.7	7.0	9.0	8.0	7.9
MERION	7.7	7.7	9.0	7.3	7.9
UNIQUE (PST-C-76)	7.0	7.3	9.0	8.3	7.9
MIDNIGHT	8.3	5.7	9.0	8.3	7.8
J-335	7.3	7.3	8.3	8.0	7.8
PST-C-391	7.0	6.3	8.7	8.3	7.6
CHELSEA	6.0	7.3	8.0	8.7	7.5
LIVINGSTON	6.3	7.3	8.7	7.7	7.5
798	6.3	7.0	8.7	7.7	7.4
CYNTHIA	7.3	6.3	8.3	7.7	7.4
UNKNOWN	6.7	6.3	9.0	7.7	7.4
BARMAX	7.0	6.0	9.0	7.3	7.3
EVB 13.703	7.0	6.3	8.3	7.7	7.3
BAR VB 1169	6.7	6.7	8.0	7.7	7.3
FORTUNA	7.0	5.7	9.0	7.3	7.3
NE 80-47	8.0	5.7	9.0	6.3	7.3
NUSTAR	6.3	6.0	9.0	7.7	7.3
RAM-1	7.0	6.0	9.0	7.0	7.3
BARTITIA	6.7	6.7	9.0	6.3	7.2
SOPHIA	7.3	4.7	8.7	8.0	7.2
EVB 13.863	7.0	5.3	9.0	7.0	7.1
MIRACLE	7.3	6.3	7.7	6.7	7.0
PST-C-303	5.3	6.7	8.7	7.3	7.0
BARSWEEP	6.0	5.7	9.0	6.7	6.8
WASHINGTON	6.7	6.0	8.7	6.0	6.8
LIBERTY	5.7	5.7	8.7	7.0	6.8
PST-YQ	6.0	5.0	8.7	7.3	6.8
SUFFOLK	6.0	5.0	9.0	6.7	6.7
BAR VB 7037	5.7	5.0	7.3	8.7	6.7
MERIT	6.3	5.7	8.7	6.0	6.7
NUBLUE (J-229)	5.7	5.3	8.7	7.0	6.7
CREST	6.7	4.7	8.3	6.7	6.6
J-386	6.3	5.3	8.3	6.3	6.6
OPAL	6.3	5.3	8.0	6.7	6.6
BARON	6.3	5.0	8.7	5.7	6.4
GNOME	6.0	4.0	8.7	7.0	6.4
AMAZON	6.0	4.0	9.0	6.3	6.3
ZPS-84-749	6.0	3.3	9.0	6.7	6.3
DESTINY	5.3	3.7	9.0	7.0	6.3
HAGA	5.3	4.3	8.3	7.0	6.3
KWS PP 13-2	4.7	5.7	6.7	8.0	6.3
KYOSTI	6.0	3.3	8.3	7.3	6.3

LEAF SPOT RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE

NAME	ID3	OR1	PA1	UB1	MEAN
BRONCO	6.3	3.0	9.0	6.3	6.2
BA 74-017	7.0	2.7	9.0	5.7	6.1
PST-A7-111	4.0	5.7	7.0	7.0	5.9
FREEDOM	5.0	2.7	8.7	7.0	5.8
GEN-RSP	7.3	2.7	8.3	4.3	5.7
MONOPOLY	2.7	4.0	9.0	6.0	5.4
BAR VB 895	6.0	2.0	8.0	5.3	5.3
NJIC	7.7	2.7	7.7	3.0	5.3
VOYAGER	7.0	2.0	7.7	3.7	5.1
ISI-21	6.3	1.7	7.0	4.7	4.9
H76-1034	5.3	1.7	8.7	3.0	4.7
PARK	3.3	2.7	6.7	4.7	4.3
KENBLUE	2.7	1.3	8.7	3.3	4.0
MN 2405	3.7	1.0	7.3	3.7	3.9
ALENE	4.0	1.7	6.7	1.7	3.5
BA 78-376	2.7	1.0	7.0	2.3	3.3
SOUTH DAKOTA CERT.	3.0	1.0	6.7	1.0	2.9
LSD VALUE	1.8	1.3	1.1	1.5	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. RED THREAD RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 1/

NAME	RI1	MEAN
BARZAN	8.3	8.3
MERION	8.3	8.3
LIVINGSTON	8.0	8.0
798	7.7	7.7
LIBERTY	7.7	7.7
NUSTAR	7.7	7.7
GEN-RSP	7.3	7.3
RAM-1	7.3	7.3
ALENE	7.0	7.0
BA 74-017	7.0	7.0
BAR VB 1184	7.0	7.0
BARON	7.0	7.0
COBALT	7.0	7.0
DESTINY	7.0	7.0
EVB 13.703	7.0	7.0
H76-1034	7.0	7.0
KWS PP 13-2	7.0	7.0
MERIT	7.0	7.0
SR 2000	7.0	7.0
BAR VB 1169	6.7	6.7
BAR VB 7037	6.7	6.7
BARSWEEP	6.7	6.7
BARTITIA	6.7	6.7
BRONCO	6.7	6.7
EVB 13.863	6.7	6.7
ISI-21	6.7	6.7
KYOSTI	6.7	6.7
NE 80-47	6.7	6.7
PST-C-303	6.7	6.7
PST-C-391	6.7	6.7
SOUTH DAKOTA CERT.	6.7	6.7
AMAZON	6.3	6.3
CHELSEA	6.3	6.3
FORTUNA	6.3	6.3
FREEDOM	6.3	6.3
HAGA	6.3	6.3
J-386	6.3	6.3
MIDNIGHT	6.3	6.3
NJIC	6.3	6.3
NUBLUE (J-229)	6.3	6.3
SOPHIA	6.3	6.3
VOYAGER	6.3	6.3
WASHINGTON	6.3	6.3
BA 78-376	6.0	6.0
BAR VB 895	6.0	6.0

RED THREAD RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE

NAME	RI1	MEAN
CREST	6.0	6.0
MN 2405	6.0	6.0
MONOPOLY	6.0	6.0
PARK	6.0	6.0
ZPS-84-749	6.0	6.0
BARMAX	5.7	5.7
GNOME	5.7	5.7
MIRACLE	5.7	5.7
PST-YQ	5.7	5.7
CYNTHIA	5.3	5.3
J-335	5.3	5.3
OPAL	5.3	5.3
PST-A7-111	5.3	5.3
UNKNOWN	5.3	5.3
SUFFOLK	5.0	5.0
UNIQUE (PST-C-76)	4.7	4.7
KENBLUE	3.7	3.7
LSD VALUE	2.1	2.1

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

TABLE 19. LEAF RUST RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

LEAF RUST RATINGS 1-9; 9=NO DISEASE 1/

NAME	DC1	MEAN
EVB 13.863	7.0	7.0
H76-1034	6.7	6.7
ISI-21	6.7	6.7
MN 2405	6.7	6.7
RAM-1	6.7	6.7
COBALT	6.3	6.3
PST-C-391	6.3	6.3
WASHINGTON	6.3	6.3
SOPHIA	6.0	6.0
BAR VB 7037	5.7	5.7
BAR VB 895	5.7	5.7
J-335	5.7	5.7
LIBERTY	5.7	5.7
PARK	5.7	5.7
SR 2000	5.7	5.7
SUFFOLK	5.7	5.7
DESTINY	5.3	5.3
LIVINGSTON	5.3	5.3
NE 80-47	5.3	5.3
798	5.0	5.0
BA 78-376	5.0	5.0
BARMAX	5.0	5.0
BRONCO	5.0	5.0
CYNTHIA	5.0	5.0
FREEDOM	5.0	5.0
GEN-RSP	5.0	5.0
HAGA	5.0	5.0
KENBLUE	5.0	5.0
KWS PP 13-2	5.0	5.0
PST-C-303	5.0	5.0
BARON	4.7	4.7
VOYAGER	4.7	4.7
AMAZON	4.3	4.3
BA 74-017	4.3	4.3
BAR VB 1169	4.3	4.3
CHELSEA	4.3	4.3
NJIC	4.3	4.3
PST-YQ	4.3	4.3
SOUTH DAKOTA CERT.	4.3	4.3
UNIQUE (PST-C-76)	4.3	4.3
UNKNOWN	4.3	4.3
CREST	4.0	4.0
EVB 13.703	4.0	4.0
FORTUNA	4.0	4.0
MIDNIGHT	4.0	4.0

LEAF RUST RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

LEAF RUST RATINGS 1-9; 9=NO DISEASE

NAME	DC1	MEAN
MONOPOLY	4.0	4.0
NUSTAR	4.0	4.0
ZPS-84-749	4.0	4.0
GNOME	3.7	3.7
J-386	3.7	3.7
MERIT	3.7	3.7
PST-A7-111	3.7	3.7
ALENE	3.3	3.3
BAR VB 1184	3.3	3.3
BARSWEEP	3.3	3.3
KYOSTI	3.3	3.3
MERION	3.0	3.0
MIRACLE	3.0	3.0
NUBLUE (J-229)	3.0	3.0
OPAL	2.3	2.3
BARTITIA	1.7	1.7
BARZAN	1.7	1.7
LSD VALUE	1.8	1.8

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 20. POA ANNUA RATINGS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

POA ANNUA RATINGS 1-9; 9=NO POA ANNUA 1/

NAME	OH1	MEAN
ISI-21	8.0	8.0
MONOPOLY	8.0	8.0
HAGA	7.7	7.7
ALFENE	7.3	7.3
BAR VB 895	7.3	7.3
BARMAX	7.0	7.0
BARTITIA	7.0	7.0
FREEDOM	7.0	7.0
KENBLUE	7.0	7.0
OPAL	7.0	7.0
PARK	7.0	7.0
PST-C-391	7.0	7.0
VOYAGER	7.0	7.0
BA 78-376	6.7	6.7
H76-1034	6.7	6.7
PST-YQ	6.7	6.7
SUFFOLK	6.7	6.7
BAR VB 7037	6.3	6.3
CREST	6.3	6.3
LIBERTY	6.3	6.3
MIRACLE	6.3	6.3
NJIC	6.3	6.3
PST-A7-111	6.3	6.3
PST-C-303	6.3	6.3
RAM-1	6.3	6.3
SOUTH DAKOTA CERT.	6.3	6.3
WASHINGTON	6.3	6.3
798	6.0	6.0
AMAZON	6.0	6.0
BARON	6.0	6.0
BRONCO	6.0	6.0
CYNTHIA	6.0	6.0
LIVINGSTON	6.0	6.0
MN 2405	6.0	6.0
NUBLUE (J-229)	6.0	6.0
NUSTAR	6.0	6.0
SOPHIA	6.0	6.0
UNKNOWN	6.0	6.0
BAR VB 1169	5.7	5.7
DESTINY	5.7	5.7
EVB 13.703	5.7	5.7
EVB 13.863	5.7	5.7
J-335	5.7	5.7
MERIT	5.7	5.7
ZES-84-749	5.7	5.7

POA ANNUA RATINGS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

POA ANNUA RATINGS 1-9; 9=NO POA ANNUA

NAME	OH1	MEAN
BA 74-017	5.3	5.3
BAR VB 1184	5.3	5.3
BARZAN	5.3	5.3
GNOME	5.3	5.3
KYOSTI	5.3	5.3
MIDNIGHT	5.3	5.3
UNIQUE (PST-C-76)	5.3	5.3
BARSWEEP	5.0	5.0
J-386	5.0	5.0
KWS PP 13-2	5.0	5.0
NE 80-47	5.0	5.0
SR 2000	5.0	5.0
CHELSEA	4.7	4.7
COBALT	4.7	4.7
FORTUNA	4.7	4.7
GEN-RSP	4.3	4.3
MERION	4.3	4.3
LSD VALUE	2.7	2.7

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 21. CANOPY HEIGHT MEASUREMENTS OF KENTUCKY BLUEGRASS  
 CULTIVARS GROWN UNDER LOW MAINTENANCE  
 1991 DATA

CANOPY HEIGHT MEASURED IN INCHES: FIVE (5) WEEKS AFTER MOWING 1/

NAME	PA1	MEAN
BA 78-376	8.0	8.0
AIENE	7.7	7.7
BARMAX	7.7	7.7
BRONCO	7.7	7.7
CHELSEA	7.7	7.7
BAR VB 895	7.3	7.3
BARZAN	7.3	7.3
KWS PP 13-2	7.3	7.3
SOPHIA	7.3	7.3
BAR VB 1169	7.0	7.0
H76-1034	7.0	7.0
HAGA	7.0	7.0
MONOPOLY	7.0	7.0
PARK	7.0	7.0
PST-A7-111	7.0	7.0
SOUTH DAKOTA CERT.	7.0	7.0
SUFFOLK	7.0	7.0
BAR VB 7037	6.7	6.7
DESTINY	6.7	6.7
EVB 13.863	6.7	6.7
J-335	6.7	6.7
KENBLUE	6.7	6.7
MIRACLE	6.7	6.7
NUSTAR	6.7	6.7
VOYAGER	6.7	6.7
WASHINGTON	6.7	6.7
FORTUNA	6.3	6.3
J-386	6.3	6.3
LIVINGSTON	6.3	6.3
PST-C-303	6.3	6.3
ZPS-84-749	6.3	6.3
BAR VB 1184	6.0	6.0
CREST	6.0	6.0
FREEDOM	6.0	6.0
ISI-21	6.0	6.0
KYOSTI	6.0	6.0
MN 2405	6.0	6.0
NJIC	6.0	6.0
NUBLUE (J-229)	6.0	6.0
PST-C-391	6.0	6.0
RAM-1	6.0	6.0
798	5.7	5.7
BARON	5.7	5.7
BARTITIA	5.7	5.7
CYNTHIA	5.7	5.7

CANOPY HEIGHT MEASUREMENTS OF KENTUCKY BLUEGRASS  
CULTIVARS GROWN UNDER LOW MAINTENANCE  
1991 DATA

CANOPY HEIGHT MEASURED IN INCHES: FIVE (5) WEEKS AFTER MOWING

NAME	PA1	MEAN
OPAL	5.7	5.7
UNKNOWN	5.7	5.7
GNOME	5.3	5.3
LIBERTY	5.3	5.3
MERIT	5.3	5.3
PST-YQ	5.3	5.3
BARSWEEP	5.0	5.0
GEN-RSP	5.0	5.0
NE 80-47	5.0	5.0
SR 2000	5.0	5.0
COBALT	4.7	4.7
AMAZON	4.3	4.3
BA 74-017	4.3	4.3
EVB 13.703	4.0	4.0
MERION	4.0	4.0
UNIQUE (PST-C-76)	4.0	4.0
MIDNIGHT	3.3	3.3
LSD VALUE	1.7	1.7

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