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# United States Patent [19] Meier

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[54] 'BA 69-82' KENTUCKY BLUEGRASS

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[58] Field of Search ..... Plt./90.2

## [56] References Cited

### U.S. PATENT DOCUMENTS

P.P. 3,156 7/1970 Fuchigami et al. .... Plt./90.2  
P.P. 3,186 5/1972 Barenbrug et al. .... Plt./90.2  
P.P. 4,336 11/1978 Mayer et al. .... Plt./90.2

P.P. 6,280 9/1988 Meier et al. .... Plt./90.2  
P.P. 6,537 1/1989 Meier et al. .... Plt./90.2  
P.P. 6,538 1/1989 Meier et al. .... Plt./90.2  
P.P. 6,585 2/1989 Meier et al. .... Plt./90.2  
P.P. 7,831 3/1992 Meier et al. .... Plt./90.2  
P.P. 8,490 12/1993 Meier et al. .... Plt./90.2  
P.P. 9,036 1/1995 Meier et al. .... Plt./90.2  
P.P. 9,209 7/1995 Meier et al. .... Plt./90.2

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## [57] ABSTRACT

A variety of Kentucky Bluegrass having a medium to high level of resistance to leaf spot, melting out disease, several rust diseases, dollar spot, powdery mildew and stripe smut; a desirable green color throughout the growing season; the ability to form a strong sod and a high quality dense persistent turf under a wide variety of environmental conditions; and has a medium level of seed yielding capacity.

## 1 Drawing Sheet

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### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to a new and distinct variety of *Poa pratensis* that has been designated Ba 69-82 Kentucky Bluegrass.

#### 2. Description of Related Art

Kentucky bluegrasses have been disclosed in U.S. Plant Pat. No. 3,156 issued May 9, 1972; U.S. Plant Pat. No. 3,186 issued May 23, 1972; U.S. Plant Pat. No. 4,336, issued Nov. 28, 1978; U.S. Plant Pat. No. 6,280 issued Sep. 6, 1988; U.S. Plant Pat. Nos. 6,537 and 6,538, issued Jan. 17, 1989; U.S. Plant Pat. No. 6,585, issued Feb. 7, 1989; U.S. Plant Pat. No. 7,831, issued Mar. 17, 1992; U.S. Plant Pat. No. 8,490, issued Dec. 7, 1993; U.S. Plant Pat. No. 9,036, issued Jan. 3, 1995 and pending U.S. Plant patent application Ser. No. 08/308,699, filed Sep. 19, 1994, now U.S. Plant Pat. No. 9,209.

### SUMMARY OF THE VARIETY

Ba 69-82 Kentucky Bluegrass plants are a distinct variety which can be produced and asexually propagated by rhizomes, tillers and disseminules. The plants originated from random seed that germinated in the O. M. Scott and Sons plant nursery and were allowed to grow in the nursery for a period of one year. The seed and pollen parents of the random seed are believed to come from a set of 88 plants collected from several locations throughout the U.S.

Seed of Ba 69-82 Kentucky Bluegrass was produced first at Marysville, Ohio and later at Gervais, Oreg. This seed was used to plant turf performance evaluation trials and later seed production fields. Asexual production of Ba 69-82 by propagules (tillers and rhizomes) and by disseminules (modified caryopses produced by apomixis) has consistently produced progeny plants indistinguishable from the mother plant. The apomixis level of Ba 69-82 is approximately 99% based upon examining seedling characteristics of approximately 100 to 150 seedlings from different crop years in a growth chamber.

Ba 69-82 has a number of highly desirable characteristics including a high level of resistance to *Drechslera* spp. that causes leaf spot, melting out and crown rot; *Laetisaria*

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*fuciformis* that causes red thread; *Sclerotinia homoeocarpa* that causes dollar spot; *Puccinia* spp. that causes several types of rust infections; *Erysiphe graminis* that causes powdery mildew; *Leptosphaeria korrae* that causes Necrotic ring spot and *Ustilago striiformis* that causes stripe smut. Ba 69-82 has an attractive leafy turf type growth habit, moderately wide leaf blades, attractive green color which can be maintained throughout the entire growing season, good drought and heat tolerance, and good turf performance as evidenced by consistently high scores for quality, color and density.

In comparison with most commercially available varieties, Ba 69-82 produces a small seed, has a short ligule and is late maturing. Under mowed conditions, Ba 69-82 develops a moderately wide blade and high sod strength. Ba 69-82 has a medium level of seed yield potential in the bluegrass seed producing regions of the northwestern U.S.

### BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a Ba 69-82 Kentucky Bluegrass plant at anthesis; FIG. 2 is a Ba 69-82 Kentucky Bluegrass panicle at anthesis; and FIG. 3 is a Ba 69-82 Kentucky Bluegrass seed.

### DETAILED DESCRIPTION OF THE VARIETY

Ba 69-82 Kentucky bluegrass (*Poa pratensis* L.) is perennial with creeping rhizomes forming a dense turf. When plants overwinter in the field under freezing temperatures and are then brought into the greenhouse during late winter to continue growth undisturbed by clipping under moderate temperatures (60°–80° F.), culms are erect averaging 31.9 cm in length, 3.2 nodes per culm and the uppermost internode 7.2 cm in length. The peduncle averages 21.0 cm in length, and 0.595 mm in width. The vegetative leaf averages 21.9 mm in width, 0.279 mm in thickness and a ligule length of 0.14 mm. An average quantity of ligule and leaf margin hairs was observed. The flag leaf averages 4.3 cm in length, 3.2 mm in width and 0.198 mm in thickness and a ligule length of 1.0 mm. The panicle averages 67.4 mm in length, 46.6 mm in width and 8.8 whorls. The lowest whorl averages



3.3 branches and the third whorl from the bottom of the panicle 3.1 branches.

The spikelet at the tip of a branch in the lowest whorl averages 4.6 mm in length, 2.3 mm in width, 3.2 florets and 2.8 mm and 3.1 mm for the outer and inner glumes in length, respectively. A similar spikelet from the third whorl from the bottom of the panicle averages 4.7 mm in length, 2.4 mm in width, 3.3 florets and 2.9 mm and 3.2 mm for the outer and inner glumes in length, respectively. The hair content on the glumes average 2.2 and 2.2 for the outer and inner glumes on the lowest whorl, respectively, and 2.1 and 3.3 on the outer and inner glumes on the third whorl, respectively.

Ba 69-82 averaged significantly more hairs on the glumes on the third whorl than most other grasses in the study. The seed of Ba 69-82 averages 2.77 mm in length, and 0.89 mm in width, 0.68 mm in rachilla length and approximately 1,250,997 seeds per pound. The dorsal side of the lemma keel contained an average population of hairs.

Comparisons of Ba 69-82 with other Kentucky Bluegrass varieties in terms of seed dimensions and numbers per pound are shown in Tables 1 and 2 as follows:

TABLE 1

Morphological Comparison of Seed and Rachilla Measurements and Lemma Hair of Ba 69-82 and Other Kentucky Bluegrass Varieties After Conditioning.				
Variety	Seed		Rachilla mm	Lemma <sup>1</sup> Hair
	Length mm	Width mm		
Ba 69-82	2.77	0.89	0.68	4.4
Ba 73-540	2.77	0.86	0.70	4.7
Abbey	2.97	0.89	0.80	3.8
Adelphi	2.70	0.84	0.65	4.4
America	2.40	0.68	0.68	2.8
Baron	3.08	0.81	0.71	5.0
Bristol	2.94	0.88	0.73	4.3
Chateau	2.81	0.86	0.71	4.5
Coventry	2.71	0.81	0.70	4.0
Eclipse	2.77	0.83	0.68	3.5
Georgetown	2.94	0.82	0.74	4.9
Gnome	2.78	0.83	0.75	4.1
Kelly	3.07	0.89	0.75	4.2
Marquis	2.97	0.87	0.83	4.7
Midnight	2.94	0.76	0.78	5.7
Nassau	3.07	0.86	0.68	3.4
Ram I	3.23	0.89	0.80	6.0
Touchdown	2.93	0.88	0.71	4.6
Victa	3.00	0.80	0.82	3.5
LSD (.05)	0.16	0.05	0.13	0.86

<sup>1</sup>Rating Scale: 0-9; 9 = abundant row of hairs along keel.

TABLE 2

Comparison of Seed Numbers Per Pound of Ba 69-82 and Other Kentucky Bluegrass Varieties After Conditioning	
Variety	Seeds per Pounds
Ba 69-82	1,250,997
Ba 73-540	1,359,914
Abbey	1,003,037
Adelphi	1,383,976
America	1,659,824
Baron	1,051,693
Bristol	1,270,821
Chateau	1,300,105
Coventry	1,246,200
Eclipse	1,335,668
Georgetown	1,431,000
Gnome	1,017,641

TABLE 2-continued

Comparison of Seed Numbers Per Pound of Ba 69-82 and Other Kentucky Bluegrass Varieties After Conditioning	
Variety	Seeds per Pounds
Kelly	921,166
Marquis	1,054,642
Midnight	1,227,000
Nassau	1,127,130
Ram I	1,214,000
Touchdown	1,211,000
Victa	1,038,298

Since environmental conditions such as soil and climate may influence morphological characteristics to some extent, comparisons of morphological characteristics of Ba 69-82 were made with other Kentucky Bluegrass varieties and the comparisons are set forth in the following Tables 3-8:

TABLE 3

Morphological Comparison of Panicles, Whorl Number and Whorl Branches of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.						
Variety	Panicles				Number of	
	Nod- ding	Length mm	Width mm	Whorl  Num- ber	Branches	
					Lower Whorl	Third Whorl
Ba 69-82	1.5	67.4	46.6	8.8	3.3	3.1
Ba 73-540	2.2	60.8	47.6	8.4	3.9	3.0
Abbey	1.6	80.4	59.3	9.3	3.8	3.3
Adelphi	1.8	106.8	76.4	10.0	3.6	3.0
America	2.3	67.7	51.1	8.8	3.3	3.5
Baron	2.2	92.6	71.0	10.0	3.4	2.8
Bristol	2.0	85.5	61.5	8.4	2.8	2.7
Chateau	2.9	65.2	57.3	8.5	3.3	2.8
Coventry	2.5	64.0	54.2	8.4	3.3	2.5
Eclipse	1.3	89.2	74.0	10.7	3.3	2.1
Georgetown	1.0	80.0	57.0	7.4	2.1	2.6
Gnome	1.1	80.6	56.0	10.6	4.6	3.9
Kelly	2.0	88.0	70.2	9.8	4.6	3.7
Marquis	1.1	82.0	63.0	10.3	3.9	3.6
Midnight	2.0	75.8	48.4	7.1	2.9	3.0
Nassau	2.2	91.2	68.6	10.0	2.5	2.1
Ram I	1.3	67.7	47.0	7.3	3.0	3.2
Touchdown	1.1	73.1	75.0	7.6	2.1	2.3
Victa	1.7	74.9	58.3	10.0	4.7	3.5
LSD (.05)	0.68	7.35	8.62	0.66	0.72	0.50

\*Rating Scale: 1-9; 9 = most nodding

TABLE 4

Morphological Comparison of Spikelets and Florets of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.						
Variety	Spikelet				Number of Florets	
	Lower Whorl		Third Whorl		Per Spikelet	
			Length	Width		
	mm	mm	mm	mm	Number	Lower Whorl
Ba 69-82	4.6	2.3	2.7	2.4	3.2	3.3
Ba 73-540	4.3	2.2	4.3	2.2	3.4	3.2
Abbey	4.4	2.2	4.5	2.2	3.0	3.0
Adelphi	4.6	2.2	4.8	2.2	4.4	4.4
America	4.6	2.2	4.4	2.3	4.5	4.3

TABLE 4-continued

Morphological Comparison of Spikelets and Florets of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.						
Variety	Spikelet				Number of Florets	
	Lower Whorl		Third Whorl		Per Spikelet	
	Length	Width	Length	Num-ber	Lower Whorl	Third Whorl
	mm	mm	mm			
Baron	5.4	2.8	5.4	3.1	4.0	4.2
Bristol	4.9	2.4	5.0	2.5	4.2	4.5
Chateau	4.4	2.4	4.4	2.4	3.4	3.5
Coventry	4.4	2.2	4.5	2.4	3.2	3.5
Eclipse	4.6	2.4	4.6	2.4	3.6	3.6
Georgetown	5.0	2.3	5.0	2.6	4.8	4.9
Gnome	4.6	2.5	4.6	2.9	3.2	3.2
Kelly	5.1	2.5	5.2	2.8	3.7	3.8
Marquis	4.3	2.2	4.4	2.3	3.1	2.9
Midnight	5.3	2.5	5.5	2.4	4.4	4.7
Nassau	4.7	2.6	4.8	3.00	4.2	4.3
Ram I	5.4	2.6	5.3	2.8	3.6	3.4
Touchdown	5.1	2.9	4.8	2.8	4.1	4.0
Victa	4.5	2.5	4.5	2.4	3.3	3.2
LSD (.05)	0.41	0.35	0.38	0.35	0.58	0.53

TABLE 5

Morphological Comparison of Glumes of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.				
Variety	Glume Length (mm)			
	Outer		Inner	
	Lowest Whorl	Third Whorl	Lowest Whorl	Third Whorl
Ba 69-82	2.8	2.9	3.1	3.2
Ba 73-540	2.6	2.7	3.0	3.0
Abbey	2.7	2.7	3.1	3.1
Adelphi	2.7	2.6	3.0	3.1
America	2.1	2.1	2.5	2.5
Baron	3.1	3.2	3.6	3.7
Bristol	2.8	3.0	3.3	3.4
Chateau	2.8	2.9	3.1	3.2
Coventry	2.7	2.8	3.1	3.1
Eclipse	3.0	3.0	3.4	3.4
Georgetown	2.8	2.8	3.1	3.1
Gnome	2.8	2.9	3.3	3.3
Kelly	3.0	3.1	3.4	3.5
Marquis	2.8	2.7	3.1	3.1
Midnight	2.6	2.6	3.0	3.1
Nassau	2.6	2.7	2.9	3.0
Ram I	2.9	3.0	3.6	3.5
Touchdown	3.3	3.3	3.8	3.8
Victa	2.8	2.7	3.1	3.1
LSD (.05)	0.23	0.22	0.22	0.23

Glume Hairs*				
Variety	Lowest Whorl		Third Whorl	
	Outer	Inner	Outer	Inner
Ba 69-82	2.2	2.2	2.1	3.1
Ba 73-540	2.5	3.0	2.5	2.5
Abbey	0.6	0.9	1.0	1.0
Adelphi	0.6	2.7	1.1	1.9
America	0.2	0.5	0.3	0.3
Baron	4.8	4.4	4.2	4.6
Bristol	1.0	2.2	0.8	2.2

TABLE 5-continued

Morphological Comparison of Glumes of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.				
Chateau	1.5	2.6	2.0	1.8
Coventry	1.5	2.7	1.6	2.4
Eclipse	1.5	1.9	1.8	1.9
Georgetown	1.7	2.7	1.2	2.5
Gnome	1.0	1.9	1.2	1.6
Kelly	1.3	1.5	1.1	0.8
Marquis	0.9	1.1	1.7	1.8
Midnight	1.8	2.8	1.0	2.4
Nassau	2.1	2.6	4.2	4.4
Ram I	1.1	2.3	0.7	1.2
Touchdown	0.7	2.1	1.1	1.4
Victa	0.8	1.1	1.1	1.3
LSD (.05)	0.9	0.9	0.9	0.9

\*Rating Scale: 0-9; 9 = most hairs

TABLE 6

Morphological comparison of Flag Leaf of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.					
Variety	Length	Width	Thickness	Leaf	
	mm	mm	mm	Angle <sup>1</sup>	Curve <sup>2</sup>
Ba 69-82	4.3	3.2	0.198	1.0	4.9
Ba 73-540	3.8	2.9	0.206	1.0	4.9
Abbey	3.8	3.4	0.145	2.7	4.1
Adelphi	5.7	3.4	0.178	5.2	5.0
America	4.3	2.6	0.211	4.6	5.0
Baron	7.0	4.2	0.152	9.2	4.4
Bristol	4.3	3.2	0.211	2.3	5.0
Chateau	4.0	2.7	0.193	3.4	2.0
Coventry	3.7	3.0	0.140	0.7	4.3
Eclipse	3.9	3.2	0.193	8.7	5.0
Georgetown	5.7	2.8	0.221	1.9	5.0
Gnome	4.5	3.5	0.185	4.3	5.0
Kelly	4.8	4.1	0.178	3.1	4.4
Marquis	5.5	3.6	0.241	2.7	4.6
Midnight	3.8	2.6	0.189	1.1	5.0
Nassau	6.0	3.7	0.191	5.9	4.7
Ram I	3.4	3.1	0.191	1.0	4.8
Touchdown	4.1	2.7	0.163	3.4	4.1
Victa	3.9	3.7	0.267	2.1	4.6
LSD (.05)	1.0	0.4	0.02	2.5	2.4

Variety	Hairs <sup>3</sup>			
	Ligule mm	Leaf Margin	Ligule	Sheath <sup>4</sup> Color
Ba 69-82	1.0	0.1	2.5	1.7
Ba 73-540	0.8	0.4	2.3	2.0
Abbey	1.3	0.8	1.6	0.2
Adelphi	1.1	1.8	1.6	0.4
America	0.6	0.4	0.7	1.9
Baron	1.2	1.0	3.8	2.6
Bristol	0.6	0.4	1.9	2.0
Chateau	0.9	1.1	3.1	0.3
Coventry	0.9	0.8	1.7	2.0
Eclipse	1.1	1.0	1.0	0.2
Georgetown	0.6	0.6	2.0	2.0
Gnome	0.8	0.9	3.2	1.5
Kelly	1.5	1.1	2.5	2.2
Marquis	0.8	0.5	3.8	1.5
Midnight	0.4	0.4	0.3	2.0
Nassau	1.1	2.6	2.4	0.8
Ram I	0.7	0.5	1.3	2.0
Touchdown	1.1	1.0	1.0	7.7
Victa	1.3	1.0	0.8	0.5
LSD (.05)	0.17	0.47	0.7	0.76

<sup>1</sup>Degrees from the stem



TABLE 6-continued

Morphological comparison of Flag Leaf of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.					
<sup>2</sup> Rating Scale: 1-9; 1 = curves up; 5 = no curve; 9 = curves down <sup>3</sup> Rating Scale: 0-9; 0 = none; 9 = many <sup>4</sup> Rating Scale: 0-9; 0 = no color; dark purple					
TABLE 7					
Morphological Comparison of Peduncles, Culms, Node Numbers Per Culm and Internode Length of Ba 69-82 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH.					
Variety	Peduncle Length cm	Peduncle Width mm	Culm Length cm	Nodes Per Culm	Top Internode Length cm
Ba 69-82	21.0	0.595	31.9	3.2	7.2
Ba 73-540	17.9	0.612	28.0	3.1	7.7
Abbey	23.2	0.655	41.3	4.1	11.0
Adelphi	24.5	0.665	40.0	4.0	10.4
America	16.2	0.622	31.8	3.1	11.0
Baron	34.0	0.701	52.8	4.2	12.8
Bristol	22.9	0.734	43.5	4.0	12.6
Chateau	20.7	0.607	38.9	4.4	9.9
Coventry	19.6	0.487	34.7	4.5	7.9
Eclipse	23.7	0.658	39.2	4.9	9.9
Georgetown	21.7	0.683	37.5	3.2	11.1
Gnome	19.4	0.836	35.3	3.1	9.2
Kelly	29.4	0.752	46.6	3.6	11.8
Marquis	27.1	0.831	34.1	3.4	7.8
Midnight	20.5	0.722	29.5	2.8	7.6
Nassau	25.0	0.663	36.0	3.9	7.4
Ram I	22.2	0.694	30.5	2.5	6.6
Touchdown	23.6	0.519	38.0	4.0	8.4
Victa	21.2	0.808	37.9	3.7	10.3
LSD (.05)	3.2	0.08	3.3	0.4	1.9

TABLE 8

Morphological Comparison of Vegetative Leaves of Ba 69-82 and Other Bluegrass Varieties in the Greenhouse at Marysville, Ohio.					
Variety	Length	Width	Thickness	Leaf	
	mm	mm	mm	Angle <sup>1</sup>	Curve <sup>2</sup>
Ba 69-82	21.9	3.5	0.279	51.7	8.3
Ba 73-540	18.1	3.5	0.300	53.0	6.2
Abbey	20.7	3.6	0.277	51.3	7.4
Adelphi	19.4	3.7	0.279	67.0	4.6
America	21.4	3.1	0.325	66.0	6.4
Baron	18.2	4.3	0.290	35.0	4.4
Bristol	18.2	3.7	0.320	65.5	6.9
Chateau	23.1	3.3	0.328	39.7	5.4
Coventry	23.4	3.6	0.249	63.0	7.3
Eclipse	20.3	4.4	0.302	65.5	5.4
Georgetown	19.5	3.6	0.287	56.7	5.8
Gnome	18.2	2.9	0.290	43.2	6.6
Kelly	22.8	3.9	0.300	55.5	7.0
Marquis	19.7	3.7	0.376	46.8	7.8
Midnight	19.5	3.5	0.310	63.3	5.0
Nassau	16.3	3.7	0.292	63.2	4.9
Ram I	19.1	3.6	0.271	70.8	6.5
Touchdown	16.7	3.7	0.243	51.3	4.0
Victa	21.5	3.6	0.360	56.3	6.7
LSD (.05)	3.5	0.43	0.04	15.9	1.5

TABLE 8-continued

Morphological Comparison of Vegetative Leaves of Ba 69-82 and Other Bluegrass Varieties in the Greenhouse at Marysville, Ohio.					
Variety	Hairs <sup>3</sup>		Leaf Margin	Leaf Roughness <sup>4</sup>	Sheath Color <sup>5</sup>
	Ligule mm	Ligule			
Ba 69-82	0.14	2.7	1.4	8.1	1.7
Ba 73-540	0.14	2.0	1.6	8.3	1.9
Abbey	0.32	4.4	2.8	7.7	0.0
Adelphi	0.34	2.6	3.4	8.8	0.0
America	0.12	1.7	2.1	8.4	2.0
Baron	0.33	4.6	3.6	7.4	0.4
Bristol	0.12	2.6	3.0	8.9	2.0
Chateau	0.22	3.3	3.1	7.8	0.5
Coventry	0.32	3.1	2.4	8.1	0.3
Eclipse	0.38	2.8	2.6	9.0	0.2
Georgetown	0.14	2.5	2.4	8.5	2.0
Gnome	0.23	1.6	0.8	7.5	1.4
Kelly	0.34	4.6	2.4	8.8	0.0
Marquis	0.21	3.6	1.1	6.8	1.1
Midnight	0.10	1.3	1.6	7.7	2.0
Nassau	0.34	2.5	3.3	8.5	1.4
Ram I	0.09	1.8	2.0	7.7	2.0
Touchdown	0.29	1.4	1.3	7.9	8.0
Victa	0.26	2.3	1.7	7.9	0.1
LSD (.05)	0.04	0.79	0.70	089	0.57

<sup>1</sup>Degrees from stem  
<sup>2</sup>Rating Scale: 1-9; 1 = curves up; 5 = no curve; 9 = curves down  
<sup>3</sup>Rating Scale: 0-9; 1 = none; 9 = many  
<sup>4</sup>Rating Scale: 1-9; 1 = rough; 9 = smooth  
<sup>5</sup>Rating Scale: 0-9; 0 = no color; 9 = dark purple color

Ba 69-82 has performed well throughout the U.S. and Canada as exhibited by high turf quality ratings in a number of locations across the U.S. in comparison to other Kentucky Bluegrass varieties. In addition, it has a pleasant medium green color which can be maintained throughout the growing season and good winter color. It demonstrates early spring greening and good spring density.

With regard to a comparative analysis conducted for purposes of determining color of Ba 69-82 plants relative to other Kentucky Bluegrass varieties, readings were taken of the vegetative color of Ba 69-82 during mid-May while the turf was actively growing with adequate nutrient and water availability. The readings were taken in full sun with several actively growing leaves being compared, one at a time, utilizing color chips from the Munsell Book of Color as a reference. On this basis, the color of Ba 69-82 was determined to be 5 GY 4/4. During the same time period, the color of similar leaves of other Kentucky Bluegrass varieties were determined by the same procedure to be as follows: Ba 73-381-5 GY 4/4; Ba 73-366-5 GY 4/4; Ba 73-540-5 GY 4/4; Abbey - 5GY 3/4; and Coventry-5 GY 4/4. However, it should be noted that the general apparent color of turf does not always correlate directly with the color of the individual actively growing leaves within the turf and that turf color varies with nutrient level and time of year with some varieties being darker or lighter green depending on such factors.

Comparisons of Ba 69-82 with other Kentucky Bluegrass varieties for quality, genetic color, winter color and spring greening are set forth hereinafter in Tables 9-12;

TABLE 9

A Comparison of Quality of Ba 69-82 and Other Kentucky Bluegrass Varieties in Four Annual Tests (A-D) Conducted at Forty Turfgrass Locations in the U.S. and Canada				
Variety	TESTS (Annual/Means)			
	A	B	C	D
Ba 69-82	5.7	5.7	6.1	5.8
Ba 73-540	5.8	5.9	6.0	5.8
Abbey	5.6	5.7	5.9	5.7
Able 1	5.7	5.7	6.0	6.1
Amazon	5.4	5.5	5.5	5.5
America	5.8	5.9	6.1	6.2
A-34	5.6	5.9	6.0	6.1
Baron	5.8	5.6	5.9	5.8
Bristol	5.7	6.0	6.1	6.0
Chateau	6.0	5.8	6.0	6.0
Classic	5.9	5.8	6.0	5.9
Coventry	5.8	5.8	5.9	5.8
Eclipse	5.6	5.9	6.2	6.3
Estate	5.9	5.9	5.9	5.8
Georgetown	5.8	5.6	5.8	5.8
Glade	5.7	5.8	6.1	6.1
Gnome	5.5	5.3	5.6	5.5
Haga	5.8	5.8	5.8	5.9
Kelly	5.6	5.7	5.9	5.8
Kenblue	5.0	4.7	5.0	5.2
Marquis	5.3	5.6	5.7	5.7
Merion	5.4	5.4	5.7	5.6
Merit	5.6	5.6	5.9	5.8
Midnight	6.1	6.3	6.4	6.3
Monopoly	5.5	5.5	5.9	5.9
Nassau	5.6	5.7	5.8	5.5
Ram I	5.7	5.6	5.9	5.8
Victa	5.8	5.7	5.8	5.8
LSD (.05)	0.2	0.2	0.2	0.2

Rating Scale: 1-9; 9 = ideal turf  
\*Not all forty locations reported data each year.

TABLE 10

A Comparison of Genetic Color of Ba 69-82 and Other Kentucky Bluegrass Varieties at 15 Locations in the U.S. and Canada				
Variety	TESTS (Annual Means)			
	A	B	C	D
Ba 69-82	6.8	6.1	6.4	6.3
Ba 73-540	6.5	6.2	6.3	6.5
Abbey	6.8	6.2	6.7	6.6
Able I	7.1	6.8	6.7	6.9
Amazon	6.2	6.9	7.0	6.5
America	6.8	6.6	7.0	6.6
A-34	5.7	5.6	5.7	5.7
Baron	6.8	6.5	6.9	6.8
Bristol	7.3	7.1	6.6	6.6
Chateau	6.5	6.0	6.2	6.5
Classic	5.8	5.6	6.3	5.9
Coventry	6.5	6.0	6.5	6.6
Eclipse	7.7	6.7	6.5	6.6
Estate	6.7	5.9	6.3	6.6
Georgetown	6.1	5.7	5.9	6.7
Glade	7.4	7.0	6.7	6.9
Gnome	6.4	6.5	6.8	6.7
Haga	5.8	5.5	6.1	5.8
Kelly	6.7	6.5	6.9	6.5
Kenblue	5.2	5.2	5.5	6.0
Marquis	7.2	6.6	6.8	6.5
Merion	6.4	5.6	6.0	6.5
Merit	6.7	6.4	6.5	6.1
Midnight	8.0	7.9	7.5	7.7
Monopoly	5.3	5.5	5.5	5.3
Nassau	7.1	6.7	6.9	6.8
Ram I	6.9	6.6	6.9	6.6

TABLE 10-continued

A Comparison of Genetic Color of Ba 69-82 and Other Kentucky Bluegrass Varieties at 15 Locations in the U.S. and Canada				
Variety	TESTS (Annual Means)			
	A	B	C	D
Victa	6.7	6.3	6.7	6.5
LSD (.05)	0.4	0.4	0.4	0.4

Rating Scale; 1-9:9 = dark green

TABLE 11

A Comparison of Spring Greenup for Ba 69-82 and Other Kentucky Bluegrass Varieties at Five Locations* in the U.S. and Canada	
Variety	Annual Means
Ba 69-82	4.8
Ba 73-540	4.6
Abbey	4.2
Able I	3.7
Amazon	3.7
America	3.9
A-34	5.2
Baron	4.2
Bristol	5.0
Chateau	4.9
Classic	4.5
Coventry	4.6
Eclipse	4.5
Estate	4.6
Georgetown	4.2
Glade	4.9
Gnome	3.9
Haga	4.5
Kelly	4.0
Kenblue	5.1
Marquis	4.0
Merion	4.3
Merit	3.9
Midnight	3.9
Monopoly	4.1
Nassau	5.2
Ram I	4.3
Victa	4.3
LSD (.05)	0.7

Rating Scale: 1-9:9 = completely green.  
\*Locations: Agassiz, British Columbia; Post Fall, ID; West Lafayette, In; Columbus, OH; Kingston, RI.

TABLE 12

A Comparison of Winter Color of Ba 69-82 and Other Kentucky Bluegrass Varieties in the U.S. and Canada		
Variety	Winter Color	
	Wichita, Kansas	Agassiz British Columbia
Ba 69-82	5.0	5.0
Ba 73-540	5.0	5.0
Abbey	3.0	4.7
Able I	5.7	4.0
Amazon	4.0	4.0
America	4.7	4.0
A-34	4.7	4.3
Baron	3.3	4.7
Bristol	5.7	5.0
Chateau	5.0	5.0
Classic	5.0	4.0
Coventry	5.0	5.0



TABLE 12-continued

A Comparison of Winter Color of Ba 69-82 and Other Kentucky Bluegrass Varieties in the U.S. and Canada		
Variety	Winter Color	
	Wichita, Kansas	Agassiz British Columbia
Eclipse	4.0	4.3
Estate	4.3	5.0
Georgetown	5.3	4.0
Glade	3.3	4.3
Gnome	2.7	4.3
Haga	5.0	4.0
Kelly	3.7	4.7
Kenblue	3.0	3.0
Marquis	3.3	4.3
Merion	3.0	4.0
Merit	3.3	5.0
Midnight	4.3	4.7
Monopoly	3.7	4.7
Nassau	5.7	5.0
Ram I	5.0	4.7
Victa	3.7	5.0
LSD (.05)	1.0	0.6

Rating Scale: 1-9; 9 = complete color retention.

Further comparisons of Ba 69-82 with other Kentucky Bluegrass varieties for leaf texture and spring, summer and fall density are given in Tables 13-16 as follows:

TABLE 13

A Comparison of Leaf Texture of Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Eight Locations in the U.S. and Canada*		
Variety	TESTS (Annual Means)	
	A	B
Ba 69-82	5.7	5.8
Ba 73-540	5.8	5.6
Abbey	6.3	6.3
Able I	7.1	7.3
Amazon	7.5	7.2
America	7.1	7.2
A-34	6.4	6.9
Baron	6.8	6.1
Barzan	6.1	6.7
Bristol	6.7	6.3
Chateau	6.1	6.0
Classic	6.6	7.0
Coventry	5.9	5.7
Eclipse	6.4	6.5
Estate	6.3	5.9
Georgetown	6.8	6.8
Glade	6.8	6.7
Gnome	6.1	6.2
Haga	6.7	7.1
Kelly	6.4	5.7
Kenblue	7.8	7.3
Marquis	6.1	5.7
Merion	6.7	6.8
Merit	6.3	6.1
Midnight	7.3	6.7
Monopoly	7.1	6.8
Nassau	6.6	6.5
Ram I	7.3	7.1
Victa	6.3	6.0
LSD (.05)	0.5	0.5

Rating Scale: 1-9; 9 = very fine

\*Locations Test A: West Lafayette, In.; Columbia, Mo.; Farmington, NM; Columbus, OH.; Brookings, SD; Puyallup, WA. Locations Test B: Agassiz, British Columbia; Post Falls, ID.; Columbus, OH.; Brookings, SD.; Puyallup, WA.

TABLE 14

A Comparison of Spring Density for Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Five Locations* in the U.S. and Canada		
Variety	TESTS (Annual Means)	
	A	B
Ba 69-82	6.7	7.1
Ba 73-540	6.5	7.6
Abbey	5.8	6.8
Able I	5.8	7.4
Amazon	6.7	6.7
America	6.2	7.1
A-34	5.7	7.3
Baron	6.3	6.8
Bristol	5.3	6.9
Chateau	6.7	7.3
Classic	5.5	7.2
Coventry	6.5	7.1
Eclipse	5.5	7.1
Estate	6.3	7.2
Georgetown	5.5	6.9
Glade	6.8	7.3
Gnome	6.0	6.3
Haga	5.5	7.3
Kelly	6.3	6.7
Kenblue	6.2	6.0
Marquis	6.0	6.6
Merion	6.3	7.3
Merit	5.8	6.7
Midnight	6.7	7.4
Monopoly	6.2	7.0
Nassau	6.2	6.6
Ram I	7.0	6.4
Victa	5.8	6.8
LSD (.05)	0.8	0.7

Rating Scale: 1-9; 9 = maximum density

\*Locations Test A: Winnipeg, Manitoba; Columbus, OH. Locations Test B: Columbia, Mo; University Park, Pa.; Brookings, SD.

TABLE 15

A Comparison of Summer Density of Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Four Locations in the U.S. and Canada*		
Variety	TESTS (Annual Means)	
	A	B
Ba 69-82	6.8	8.2
Ba 73-540	6.7	8.2
Abbey	7.1	8.0
Able I	6.8	7.8
Amazon	6.8	8.2
America	6.8	7.7
A-34	6.8	7.8
Baron	6.3	7.7
Bristol	6.4	7.8
Chateau	7.3	8.3
Classic	6.3	8.0
Coventry	6.8	8.2
Eclipse	6.3	7.7
Estate	6.6	8.2
Georgetown	5.9	7.3
Glade	6.2	8.2
Gnome	6.3	7.3
Haga	6.3	7.7
Kelly	6.4	7.7
Kenblue	6.1	7.2
Marquis	6.3	7.0
Merion	6.4	7.8
Merit	6.3	7.8
Midnight	6.5	7.8
Monopoly	5.8	7.7
Nassau	6.1	7.0

TABLE 15-continued

A Comparison of Summer Density of Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Four Locations in the U.S. and Canada*		
Variety	TESTS (Annual Means)	
	A	B
Ram I	6.7	7.8
Victa	6.2	8.0
LSD (.05)	0.8	0.7

Rating Scale: 1-9; 9 = maximum density  
\*Locations Test A: Winnipeg, Manitoba; Columbus, OH.  
Locations Test B: Columbia, Mo.; Brookings, SD.

TABLE 16

A Comparison of Fall Density Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Five Locations in the U.S. and Canada*		
Variety	TESTS (Annual Means)	
	A	B
Ba 69-82	8.0	7.5
Ba 73-540	8.7	7.8
Abbey	7.0	7.2
Able I	8.2	7.4
Amazon	9.0	7.8
America	8.7	7.5
A-34	8.2	7.9
Baron	8.0	7.0
Bristol	7.8	7.5
Chateau	8.2	7.5
Classic	8.2	7.5
Coventry	9.0	7.3
Eclipse	8.0	7.5
Estate	8.0	7.4
Georgetown	7.3	7.1
Glade	7.8	7.6
Gnome	7.7	7.1
Haga	8.3	7.5
Kelly	7.2	7.8
Kenblue	8.3	7.5
Marquis	6.2	6.8
Merion	7.3	7.3
Merit	7.2	7.0
Midnight	8.3	8.1
Monopoly	7.5	7.1
Nassau	6.5	7.3
Parade	8.7	7.5
Ram I	9.0	7.6
Victa	7.8	7.1
LSD (.05)	0.5	0.6

Rating Scale: 1-9:9 = maximum density  
\*Locations Test A: Winnipeg, Monitoba; Brookings, SD.  
Locations Test B: Post Falls, ID.; Winnipeg, Manitoba; Columbia, Mo.; Columbus, OH.

Turf diseases are one of the major causes of inconsistent and poor turf performance among locations and years. Ba 69-82 has been found to have a high level of resistance to leaf spot, melting out and crown rot caused by *Drechslera poae* (formerly called *Helminthosporium vagans*), a medium to high level of resistance to several rust diseases caused by *Puccinia* spp., dollarspot caused by *Sclerotinia homeocarpa*, red thread caused by *Laetisaria fuciformis* (formerly called *Corticium fuciforme*), necrotic ring spot caused by *Lep-*

*tosphaeria korrae*, stripe smut caused by *Ustilago striiformis*, and powdery mildew caused by *Erysinhe graminis*.

Comparisons of disease incidence in Ba 69-82 as compared with other Kentucky Bluegrass varieties in regard to leaf spot, melting out, rusts, dollarspot, red thread, stripe smut, necrotic ring spot and powdery mildew are presented in Tables 17-27. Additional comparisons are presented in Tables 28-31 for drought stress, sod strength and seed yields.

TABLE 17

A Comparison of Leaf Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests Conducted at Five Locations in the U.S. and Canada*		
Variety	TEST (Annual Means)	
	A	B
Ba 69-82	7.2	6.2
Ba 73-540	5.9	5.7
Abbey	4.6	5.8
Able I	6.8	5.7
Amazon	5.2	5.8
America	5.7	6.5
A-34	6.3	5.7
Baron	6.0	6.5
Bristol	7.9	6.5
Chateau	6.4	6.2
Classic	6.2	6.0
Coventry	5.0	6.2
Eclipse	7.4	7.0
Estate	6.8	5.8
Georgetown	6.7	6.5
Glade	7.4	5.8
Gnome	6.0	6.3
Haga	6.7	6.0
Kelly	5.1	6.2
Kenblue	4.8	2.0
Marquis	6.4	6.2
Merion	6.2	6.3
Merit	5.6	6.5
Midnight	7.2	6.2
Monopoly	5.6	6.7
Nassau	6.6	6.2
Ram I	4.9	5.0
Victa	6.0	6.2
LSD (.05)	1.0	0.9

Rating Scale: 1-9; 9 = no disease  
\*Locations Test A: Post Falls, ID.; Hubbard, OR.; Remington, VA.  
Locations Test B: Beltsville, MD.; Blacksburg, VA.

TABLE 18

A Comparison of Leaf Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Three Annual Tests (A-C) Conducted at Marysville, OH			
Variety	% Leaf Spot Tests		
	A	B	C
Ba 69-82	4.3	1.0	16.7
Adelphi	17.7	2.3	11.7
Bristol	5.2	1.0	5.0
Marquis	5.2	1.0	8.3
Parade	7.7	13.3	16.7
Park	62.5	76.7	90.0
Vantage	33.3	7.0	25.0
Victa	9.2	1.0	10.7



TABLE 18-continued

A Comparison of Leaf Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Three Annual Tests (A-C) Conducted at Marysville, OH			
Variety	% Leaf Spot Tests		
	A	B	C
LSD (.05)		3.1	15.7

TABLE 19

A Comparison of Leaf Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Gervais, Oregon		
Variety	% Leaf Spot Tests	
	A	B
Ba 69-82	10.0	16.7
Adelphi	70.0	73.3
America	53.3	36.7
Bristol	5.0	10.0
Glade	21.7	36.7
Kenblue	88.3	66.7
Marquis	83.3	88.3
Merit	80.0	83.3
Newport	50.0	60.1
Victa	80.0	78.3
LSD (.05)	16.0	26.0

TABLE 20

A Comparison of Leaf Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Prince Fredrick, Maryland	
Variety	% Leaf Spot
Ba 69-82	12.5
Fylking	10.0
Kenblue	60.0
Merion	15.0
Nugget	10.0
Newport	40.0
Vantage	20.0
Victa	27.5
LSD (.05)	23

TABLE 21

A Comparison of Melting Out Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Three Locations*		
Variety	Melting Out	
	Spring	Fall
Ba 69-82	5.0	9.0
Ba 73-540	5.2	8.7
Abbey	3.7	8.0
Able I	4.5	9.0
Amazon	4.2	7.0
America	5.2	8.7
A-34	4.8	8.7
Baron	4.3	8.3
Bristol	5.7	9.0
Chateau	5.5	9.0
Classic	6.2	8.7
Coventry	4.3	9.0
Eclipse	5.0	7.0
Estate	5.3	9.0
Georgetown	5.8	9.0
Glade	4.5	8.0

TABLE 21-continued

A Comparison of Melting Out Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Three Locations*		
Variety	Melting Out	
	Spring	Fall
Gnome	4.5	8.7
Haga	6.2	9.0
Kelly	3.8	8.3
Kenblue	3.7	1.0
Marquis	4.8	7.7
Merion	5.0	9.0
Merit	4.2	8.3
Midnight	4.0	9.0
Monopoly	4.5	8.0
Nassau	5.0	9.0
Ram I	4.5	5.3
Victa	5.2	8.0
LSD (.05)	0.7	1.6

Rating Scale: 1-9; 9 = no disease  
\*Locations: Fall - Puyallup, Wa. Spring - Blacksburg, Va.; Blackstone, Va.

TABLE 22

A Comparison of Stripe Smut Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in 2 Tests (A-B) Conducted at Prince Fredrick, Md		
Variety	% Stripe Smut	
	A	B
Ba 69-B2	4.0	1.5
Fylking	27.5	40.0
Kenblue	5.0	2.5
Merion	37.5	75.0
Nugget	4.0	17.5
Newport	12.5	10.0
Vantage	12.5	30.0
Victa	55.0	50.0
LSD (.05)	30	22

TABLE 23

A Comparison of Dollar Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Columbia, MO	
Variety	Dollar Spot
Ba 69-82	7.7
Ba 73-540	8.0
Abbey	7.3
Able I	7.7
Amazon	6.7
America	7.3
A-34	7.3
Baron	7.0
Bristol	7.7
Chateau	6.7
Classic	6.3
Coventry	7.7
Eclipse	7.7
Estate	7.3
Georgetown	7.3
Glade	7.3
Gnome	8.0
Haga	7.3
Kenblue	7.3
Merion	7.3
Merit	6.7
Midnight	6.7
Monopoly	7.0
Nassau	6.7
Ram I	6.0



TABLE 23-continued

A Comparison of Dollar Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Columbia, MO	
Variety	Dollar Spot
Victa7.7	
LSD (.05)	1.4
Rating Scale: 1-9; 9 = no disease	

TABLE 24

A Comparison of Powdery Mildew Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests Conducted at Two Separate Locations		
Variety	Powdery Mildew	
	Adelphia. N J Test	Ritzville, WA Test
Ba 69-82	5.3	7.0
Ba 73-540	5.7	6.0
Abbey	1.0	3.5
Able I	6.7	5.7
Amazon	5.0	4.7
America	7.7	8.0
A-34	6.7	5.0
Baron	1.3	4.0
Bristol	7.0	8.0
Chateau	5.3	5.0
Classic	2.7	6.7
Coventry	6.0	6.0
Eclipse	5.0	6.0
Estate	7.0	6.7
Georgetown	2.7	6.0
Glade	3.3	6.0
Gnome	1.0	3.7
Haga	3.0	6.3
Kenblue	5.0	8.0
Merion	1.0	5.7
Merit	1.7	4.6
Midnight	1.7	4.0
Monopoly	6.7	7.7
Nassau	2.3	5.7
Ram I	6.7	4.7
Victa	1.7	4.3
LSD (.05)	1.4	2.3
Rating Scale: 1-9; 9' = no disease		

TABLE 25

A Comparison of Rust Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Annual Testing at Various Locations in the U.S. and Canada				
Variety	Stem Rust		Stripe Rust Agassiz,	Crown Rust Agassiz
	Adelphia New Jersey Test	Post Falls Idaho Test	British Columbia Test	British Columbia Test
Ba 69-82	8.3	8.0	8.0	9.0
Ba 73-540	8.0	8.0	8.0	9.0
Abbey	6.3	8.3	6.3	7.0
Able I	7.0	8.0	7.3	8.3
Amazon	6.0	7.3	7.0	9.0
America	8.3	7.7	8.0	8.3
A-34	8.0	8.0	7.0	8.3
Baron	7.3	8.0	7.0	8.0
Bristol	8.7	8.0	8.0	8.3
Chateau	8.3	7.3	7.3	9.0
Classic	8.7	8.3	8.0	9.0
Coventry	8.3	8.0	8.0	8.0

TABLE 25-continued

A Comparison of Rust Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties in Annual Testing at Various Locations in the U.S. and Canada				
Variety	Stem Rust		Stripe Rust Agassiz,	Crown Rust Agassiz
	Adelphia New Jersey Test	Post Falls Idaho Test	British Columbia Test	British Columbia Test
Eclipse	7.7	8.3	6.3	9.0
Estate	7.3	7.7	8.0	9.0
Georgetown	9.0	7.7	7.0	8.7
Glade	7.7	8.0	6.0	6.7
Gnome	7.7	8.7	7.0	7.7
Haga	9.0	7.3	7.3	8.0
Kenblue	8.3	7.7	7.7	6.7
Merion	2.7	4.0	5.3	5.0
Merit	8.0	8.0	6.7	7.0
Midnight	8.3	7.3	5.7	6.3
Monopoly	8.0	7.3	7.3	9.6
Nassau	7.7	8.0	7.3	8.3
Ram I	8.7	6.7	7.0	8.3
Victa	7.7	5.7	5.7	7.3
LSD (.05)	1.0	2.0	1.2	1.4
Rating Scale: 1-9 9 = no disease				

TABLE 26

A Comparison of Necrotic Ring Spot Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Post Falls, Id.	
Variety	Necrotic Ring Spot
Ba 69-82	9.0
Ba 73-540	7.3
Abbey	7.0
Able I	9.0
Amazon	6.3
America	8.3
A-34	8.7
Baron	9.0
Bristol	8.3
Chateau	8.0
Classic	9.0
Coventry	8.7
Eclipse	7.7
Estate	8.3
Georgetown	9.0
Glade	9.0
Gnome	8.3
Haga	9.0
Kelly	8.7
Kenblue	9.0
Merion	9.0
Merit	9.0
Midnight	8.0
Monopoly	9.0
Mystic	8.7
Nassau	9.0
Ram I	9.0
Victa	9.0
LSD (.05)	1.8
Rating Scale: 1-9; 9 = no disease	

TABLE 27

A Comparison of Red Thread Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Gervais, Oregon	
Variety	% Red Thread
Ba 69-82	0.0

TABLE 27-continued

A Comparison of Red Thread Disease Incidence in Ba 69-82 and Other Kentucky Bluegrass Varieties at Gervais, Oregon		
Variety	% Red Thread	
Adelphi	0.0	
America	1.7	
Bristol	0.0	
Glade	15.0	
Kenblue	23.3	
Marquis	6.7	
Merit	6.7	
Newport	3.3	
Victa	10.0	
LSD (.05)	13.0	

TABLE 28

A Comparison of Percent Drought Damage in Ba 69-82 and Other Kentucky Bluegrass Varieties in Two Annual Tests (A-B) Conducted at Prince Fredrick, Maryland		
Variety	% Drought Damage Test	
	A	B
Ba 69-82	0.0	17.5
Fylking	12.5	25.0
Kenblue	5.0	7.5
Merion	2.5	15.0
Nugget	12.5	20.0
Newport	7.5	10.0
Vantage	0.0	15.0
Victa	15.0	45.0
LSD (.05)	11.0	29.0

TABLE 29

A Comparison of Sod Strength 8 and 12 Months After Planting of Ba 69-82 and Other Kentucky Bluegrass Varities at Remington, VA		
Variety	SOD STRENGTH	
	8 Months	12 Months
Ba 69-82	26.0	20.0
Ba 73-540	20.3	11.7
Abbey	17.0	8.0
Able I	16.3	8.7
Amazon	18.0	8.7
America	30.7	18.7
A-34	21.7	9.7
Baron	25.7	14.7
Bristol	24.7	8.3
Challenger	23.0	12.0
Chateau	23.3	15.0
Classic	23.0	15.3
Coventry	18.0	11.0
Eclipse	22.0	13.0
Estate	23.3	16.0
Georgetown	30.0	14.3
Glade	26.3	18.0
Gnome	22.0	14.3
Haga	22.3	13.0
Kenblue	22.0	16.3
Marquis	23.0	12.7
Merion	21.3	11.3

TABLE 29-continued

A Comparison of Sod Strength 8 and 12 Months After Planting of Ba 69-82 and Other Kentucky Bluegrass Varities at Remington, VA		
Variety	SOD STRENGTH	
	8 Months	12 Months
Merit	25.3	13.3
Midnight	22.3	14.3
Monopoly	26.0	8.3
Nassau	22.3	8.3
Ram I	22.3	11.0
Victa	29.3	16.3
Wabash	16.7	10.3
LSD (.05)	6.9	6.1

Rating Scale: Kilograms of tension needed to tear sod.

TABLE 30

Seed Yield Comparison in Pounds Per Acre of Ba 69-82 and Other Kentucky Bluegrass Varieties in Three Annual Tests (A-C) Conducted in Oregon			
Variety	Madras, Oregon	LaGrande, Oregon	
	Test A	Test B	Test C
Ba 69-82	884	920	894
Abbey	—	1253	1512
Baron	1194	—	—
Chateau	1113	857	876
Coventry	1090	—	—
Estate	—	857	876
Marquis	—	1030	1174
Victa	1324	1200	1419
LSD	—	181	149

TABLE 31

A Comparison of Seed Yields in Pounds Per Acre of Ba 69-82 and Other Kentucky Bluegrass Varities at LaGrande, Oregon	
Variety	Yield
Ba 69-82	1,159
Ba 73-366	1,612
Ba 73-381	1,551
Ba 74-114	748
Abbey	1,549
Coventry	1,046
LSD (.05)	160

What is claimed is:

1. A variety of Kentucky bluegrass plant, substantially as shown and described, characterized by a medium to high level of resistance to several serious diseases including leaf spot, melting out, several rusts, dollar spot, powdery mildew and stripe smut, and a desirable green color throughout the growing season, a strong sod former, forms a high quality dense persistent turf under a wide variety of environmental conditions and has a medium level of seed yielding capacity.

\* \* \* \* \*



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FIG. 1



FIG. 2

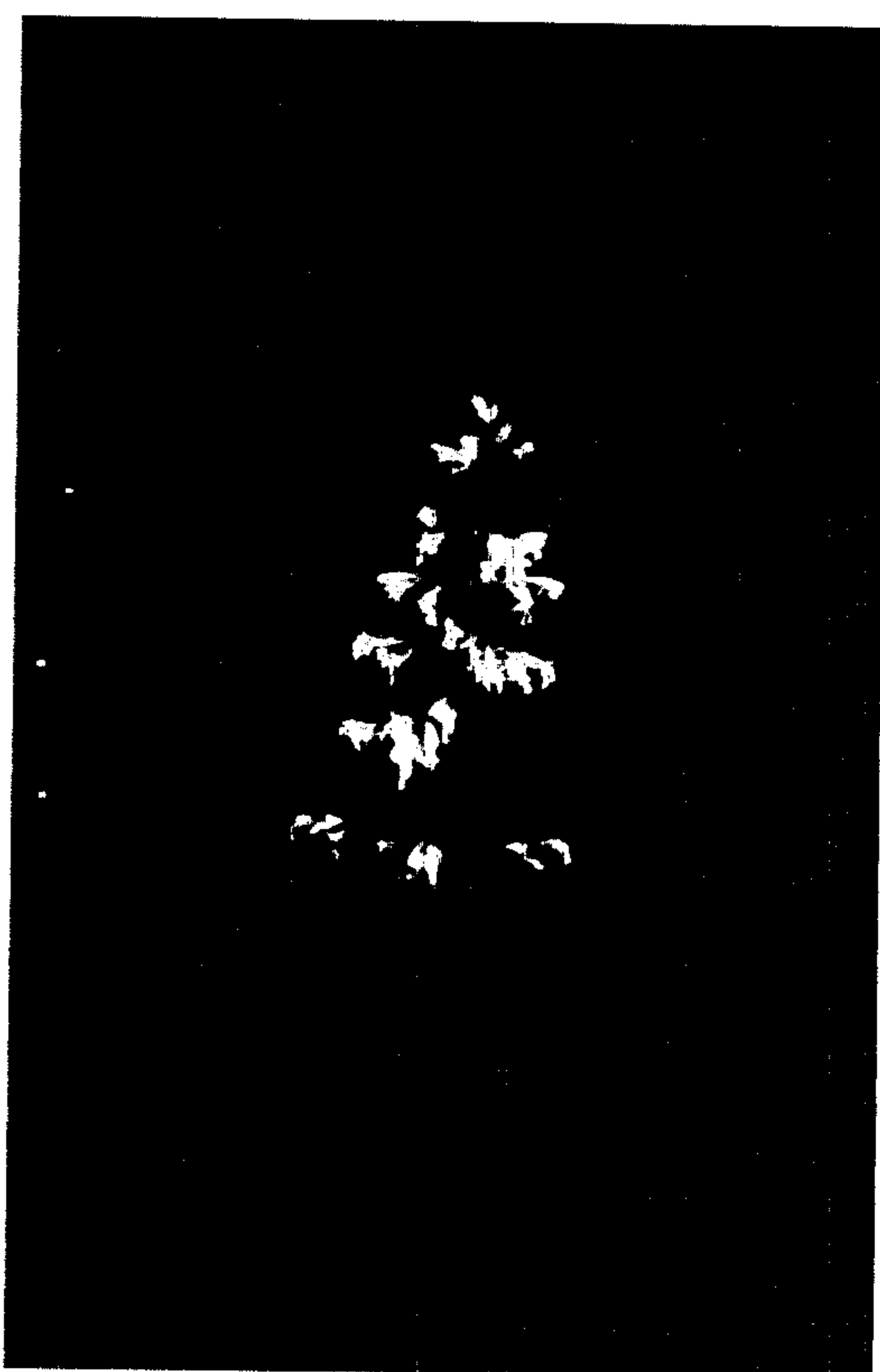


FIG. 3



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : Plant 9,611  
DATED : July 23, 1996  
INVENTOR(S) : Virgil D. Meier

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the title page, item

[75] Add --Eugene W. Mayer-- as co-inventor.

**Signed and Sealed this**

**Seventh Day of January, 1997**



*Attest:*

**BRUCE LEHMAN**

*Attesting Officer*

*Commissioner of Patents and Trademarks*