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United States Patent

Meier et al.

[54]	'BA-74-11	4' KENTUCKY BLUEGRASS
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[52]	U.S. Cl.	·	Plt./90.2
[58]	Field of S	earch	Plt./90.2

[56] References Cited

U.S. PATENT DOCUMENTS

P.P. 3,156	7/1970	Fuchigami et al Plt./90.3	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

Plant 9,848 Patent Number:

Date of Patent: Apr. 1, 1997

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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ABSTRACT [57]

A variety of Kentucky Bluegrass having a medium to high level of resistance to leaf spot and melting out disease, dollar spot, rusts, stripe smut and powdery mildew; a dark green color throughout the growing season; the ability to form medium to high quality turf under a wide variety of environmental conditions; a moderately wide blade; a low growth habit; and a medium level of seed yielding capacity.

1 Drawing Sheet

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a new and distinct variety of Poa pretensis that has been designated Ba 74-114 Ken- 5 tucky Bluegrass.

2. Description of Related Art

Kentucky bluegrasses have been disclosed in U.S. Pat. No. P.P. 3,156, issued May 9, 1972; U.S. Pat. No. P.P. 3,186, issued May 23, 1972; U.S. Pat. No. P.P. 4,336, issued Nov. 10 28, 1978; U.S. Pat. No. P.P. 6,280, issued Sep. 6, 1988; U.S. Pat. Nos. P.P. 6,537 and 6,538, issued on Jan. 17, 1989; U.S. Pat. No. P.P. 6,585, issued Feb. 7, 1989; U.S. Pat. No. P.P. 7,831, issued Mar. 17, 1992; U.S. Pat. No. P.P. 8,490, issued Dec. 7, 1993; U.S. Pat. No. P.P. 9,036, issued Jan. 3, 1995; 15 U.S. Pat. No. P.P. 9,209, issued Jul. 18, 1995; and pending U.S. Plant patent application Ser. No. 08/453,864, filed May 30, 1995.

SUMMARY OF THE VARIETY

Ba 74-114 plant material originated by crossing a Vantage Kentucky bluegrass plant as the seed parent with an Anheuser Dwarf Kentucky bluegrass plant as the pollen parent. As a result of this breeding, a distinct variety was 25 produced and asexually propagated by rhizomes, tillers and disseminules.

Seed of Ba 74-114 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 30 seed production fields. Asexual production of Ba 74-114 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 Ba74-114 is approximately 35 95% based upon examining seedling characteristics of approximately 100 to 150 seedlings from different crop years in a growth chamber.

Ba 74-114 has a number of highly desirable characteristics including a medium to high level of resistance to Drechslera spp. that causes leaf spot, melting out and crown

rot; Scherotinia homoeocarpa that causes dollar spot; Puccinia spp. that causes several types of rust infections; Erysiphe graminis that causes powdery mildew and Ustilago striiformis that causes stripe smut. Ba 74-114 has an attractive leafy turf type, low growth habit; moderately wide leaf blades and an attractive dark green color which can be maintained throughout the entire growing season. Ba 74-114 demonstrates strong early spring greening and good winter color under mild winter conditions.

Ba 74-114 is an overall good turfgrass performer as evidenced by medium to high scores for quality and color. Ba 74-114 has a medium seed yield potential in the bluegrass seed production region of the northwestern U.S.

In comparison with a number of other Kentucky bluegrasses, Ba 74-114 has a significantly longer seed and rachilla than many other grasses and a below average seed count. The panicle is significantly longer than many other grasses, below average in width and whorl number and a significantly lower branch count. Ba 74-114 has significantly larger spikelets, longer glumes and above average number of florets. Its culm and internode are significantly longer than many other grasses. The peduncle is slightly above average in length and width. It has a flag leaf that is above average in length and width and significantly thicker than many other grasses. The vegetative leaf is below average in length but it is a significantly wider leaf than most other grasses and significantly thicker than many other grasses. The ligule of the vegetative leaf is significantly shorter and sheath color is significantly greater than many other grasses.

Ba 74-114 Kentucky Bluegrass is lower growing, darker green in color and substantially more resistant to leaf spot disease than Vantage Kentucky Bluegrass, its seed parent. Ba 74-114 is a higher seed yielder and a more vigorous plant than Anheuser Kentucky Bluegrass, its pollen parent.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a Ba 74-114 Kentucky Bluegrass panicle; FIG. 2 is a Ba 74-114 Kentucky Bluegrass seed; and FIG. 3 is a Ba 74-114 Kentucky Bluegrass plant shortly after completing anthesis.

DETAILED DESCRIPTION OF THE VARIETY

BA 74-114 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 later winter to continue growth undisturbed by clipping under moderate temperatures (60°–80° F.), culms are erect averaging 44.9 cm in length and 3.7 nodes per culm and the uppermost internode averages 13.4 cm in length. The peduncle averages 24.7 cm in length and 0.71 mm in width. The vegetative leaf averages 18.9 cm in length, 4.5 mm in width and 0.36 mm in thickness and the ligule 0.14 mm in length. The flag leaf averages 5.3 cm in length, 3.4 mm in 15 width, 0.23 mm in thickness and a ligule length of 1.2 mm.

The panicle averages 88.8 mm in length, 52.0 mm in width, and 9.3 whorls. Both the lowest whorl and the third whorl from the bottom of the panicle average 2.1 branches. A spikelet in the lowest whorl averages 5.6 mm in length, 3.2 mm in width, 4.1 florets and the outer glume and inner glume average 3.5 and 3.9 mm in length, respectively. A spikelet from the third whorl from the bottom of the panicle averages 5.6 mm in length, 3.3 mm in width, 4.1 florets, and the outer glume and inner glume averages 3.3 and 3.8 mm in length, respectively.

After the seed has been conditioned, the lemma has a generally smooth keel with occasional short hairs and a few long fine hairs at the base. Conditioned seed of Ba 74-114 ³⁰ averages 3.23 mm in length, 0.89 mm in width, a rachilla length of 0.88 mm, and, contains an average quantity of lemma hairs. The seed count for Ba 74-114 averages approximately 978,000 seeds per pound.

Comparisons of Ba 74-114 with other Kentucky Bluegrass varieties in terms of seed dimension and seed numbers per pound are shown in Tables 1 and 2 as follows:

TABLE 1
orphological Comparison of Seed and Rachilla Measurements

Morphological Comparison of Seed and Rachilla Measurements and Lemma Hair of Ba 74-114 and Other Kentucky Bluegrass Varieties at Marysville, OH After Conditioning

	Se	ed			45
Variety	Length mm	Width	Rachilla mm	Lemma* Hair	42
Ba 74-114	3.23	0.89	0.88	4.2	
Ba73-366	3.04	0.91	0.80	4.4	
Ba73-381	3.00	0.94	0.86	4.9	50
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	55
Coventry	2.71	0.81	0.70	4.0	55
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	60
Midnight	2.94	0.76	0.78	5.7	60
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	

^{*}Rating Scale: 0-9; 9 = longest row of hairs

TABLE 2

Comparison of Seed Numbers Per Pound of Ba 74-114 and Other Kentucky Bluegrass Varieties at Marysville, OH After Conditioning

	Variety	Seeds Per Pound	
	Ba 74-114	978,000	
	Ba73-366	1,025,586	
)	Ba73-381	1,171,000	
	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	
	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	

Ba 74-114 differs significantly morphologically from many other Kentucky Bluegrass varieties in regard to the following characteristics: (1) seed length; (2) rachilla length; (3) panicle length; (4) number of branches in the whorl; (5) spikelet length and width; (6) glume length and width; (7) culm length and internode length; (8) flag leaf thickness; and (9) vegetative leaf width and sheath color.

Since environmental conditions such as soil and climate may influence morphological characteristics to some extent, comparisons of morphological characteristics of Ba 74-114 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 74-114 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH

45			Panicles	<u></u>		Nun of Bra	nber inches
	Variety	Nod- ding*	Length mm	Width mm	Whorl Number	Lowest Whorl	Third Whorl
	Ba 74-114	2.0	88.8	62.0	9.3	2.1	2.1
	Ba73-366	1.6	88.8	68.4	8.8	4.3	3.7
50	Ba73-381	1.1	80.2	55.3	9.8	4.1	3.9
	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
55	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
	George-	1.0	80.0	57.0	7.4	2.1	2.6
	town						
	Gnome	1.1	80.6	56.0	10.6	4.6	3.9
60	Kelly	2.0	0.88	70.2	9.8	4.6	3.7
UU	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
<i>~</i>	LSD (.05)	0.68	7.35	8.62	0.66	0.72	0.50
65							_

^{*}Rate Scale: 1-9; 9 = most nodding

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20

25

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TABLE 4

Morphological Comparison of Spikelets and Florets of
Ba 74-114 and Other Kentucky Bluegrass Varieties in the
Greenhouse at Marysville, OH

		Spik	elet*		Nun of Fl Po	
	Lowest	Whorl	Third	Whorl	Spik	relet
Variety	Length mm	Width mm	Length mm	Width mm	Lowest Whorl	Third Whorl
Ba 74-114	5.6	3.2	5.6	3.3	4.1	4.1
Ba73-366	4.6	2.5	4.7	2.6	2.6	2.8
Ba73-381	4.7	2.4	4.6	2.6	2.7	2.7
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
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	3.0	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

^{*}Microscope measurements

TABLE 5

		Glume Le	ngth (mm)	<u> </u>
	<u>О</u> ц	ter	Inn	er
Variety	Lowest Whorl	Third Whorl	Lowest Whorl	Third Whorl
3a 74-114	3.5	3.3	3.9	3.8
3a73-366	2.8	2.8	3.2	3.1
3a73-381	2.8	2.9	3.2	3.1
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
Vassau	2.6	2.7	2.9	3.0
Ram I	2.9	3.0	3.6	3.5
fouchdown	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

TABLE 5-continued

Morphological Comparison of Glumes of Ba 74-114 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH

		Glume Hairs*				
	Lowest	Whorl	Third \	Third Whorl		
Variety	Outer	Inner	Outer	Inner		
Ba 74-114	2.6	3.2	2.2	2.8		
Ba73-366	1.7	1.3	1.3	2.0		
Ba73-381	1.7	2.3	2.1	2.3		
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		
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	2.4		
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 Leaves of Ba 74-114 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH

Variety	Length cm	Width mm	Thickness mm	Angle ^{1/}	Curve ^{2/}
Ba 74-114	5.3	3.4	0.23	1.4	5.0
Ba73-366	4.5	3.6	0.18	5.1	4.4
Ba73-381	4.3	3.5	0.22	1.9	5.0
Abbey	3.8	3.4	0.14	2.7	4.1
Adelphi	5.7	3.4	0.18	5.2	5.0
America	4.3	2.6	0.21	4.6	5.0
Baron	7.0	4.2	0.15	9.2	4.4
Bristol	4.3	3.2	0.21	2.3	5.0
Chateau	4.0	2.7	0.19	3.4	2.0
Coventry	3.7	3.0	0.14	0.7	4.3
Eclipse	3.9	3.2	0.19	8.7	5.0
Georgetown	5.7	2.8	0.22	1.9	5.0
Gnome	4.5	3.5	0.18	4.3	5.0
Kelly	4.8	4.1	0.18	3.1	4.4
Marquis	5.5	3.6	0.24	2.7	4.6
Midnight	3.8	2.6	0.19	1.1	5.0
Nassau	6.0	3.7	0.19	5.9	4.7
Ram I	3.4	3.1	0.19	1.0	4.8
Touchdown	4.1	2.7	0.16	3.4	4.1
Victa	3.9	3.7	0.27	2.1	4.6
LSD (.05)	1.0	0.4	0.02	2.5	0.4

	_	Hair		
Variety	Ligule mm	Leaf Margin	Ligule	Sheath Color ^{4/}
Ba 74-114	1.2	0.5	2.1	1.8
Ba73-366	1.5	0.4	2.2	0.5
Ba73-381	1.3	0.4	3.6	1.5
Abbey	1.3	0.8	1.6	0.2
Adelphi	$1.\dot{1}$	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

TABLE 6-continued

	gical Comparison Other Kentucky I Greenhouse at	Bluegrass Vari	eties in the	-114
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

¹/Degrees from the stem

TABLE 7

Morphological Comparison of Peduncles, Culms, Node Numbers Per Culm and Internode Length of Ba 74-114 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	30
Ba 74-114	24.7	0.71	44.9	3.7	13.4	
Ba73-366	26.4	0.70	42.7	4.1	9.2	
Ba73-381	24.3	0.81	39.5	3.1	10.8	
Abbey	23.2	0.65	41.3	4.1	11.0	
Adelphi	24.5	0.66	40.0	4.0	10.4	
America	16.2	0.62	31.8	3.1	11.0	35
Baron	34.0	0.70	52.8	4.2	12.8	
Bristol	22.9	0.73	43.5	4.0	12.6	
Chateau	20.7	0.61	38.9	4.4	9.9	
Coventry	19.6	0.49	34.7	4.5	7.9	
Eclipse	23.7	0.66	39.2	4.9	9.9	
Georgetown	21.7	0.68	37.5	3.2	11.1	40
Gnome	19.4	0.84	35.3	3.1	9.2	
Kelly	29.4	0.75	46.6	3.6	11.8	
Marquis	27.1	0.83	34.1	3.4	7.8	
Midnight	20.5	0.72	29.5	2.8	7.6	
Nassau	25.0	0.66	36.0	3.9	7.4	
Ram I	22.2	0.69	30.5	2.5	` 6.6	45
Touchdown	23.6	0.52	38.0	4.0	8.4	45
Victa	21.2	0.81	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 74-114 and Other Kentucky Bluegrass Varieties in the Greenhouse at Marysville, OH

	Length	Width	Width Thickness Lea		eaf	_
Variety	cm	mm	mm	Angle ^{1/}	Curve _{2/}	
Ba 74-114	18.9	4.5	0.36	50.9	5.0	-
Ba73-366	22.9	3.8	0.40	53.0	7.1	
Ba73-381	22.1	3.3	0.30	62.5	8.2	
Abbey	20.7	3.6	0.28	51.3	7.4	
Adelphi	19.4	3.7	0.28	67.0	4.6	
America	21.4	3.1	0.32	66.0	6.4	
Baron	18.2	4.3	0.29	35.0	4.4	
Bristol	18.2	3.7	0.32	65.5	6.9	
Chateau	23.1	3.3	0.33	39.7	5.4	
Coventry	23.4	3.6	0.25	63.0	7.3	;

TABLE 8-continued

		arison of Vege y Bluegrass Va at Marysville	rieties in t		
Eclipse	20.3	4.4	0.30	65.5	5.4
Georgetown	19.5	3.6	0.29	56.7	5.8
Gnome	18.2	2.9	0.29	43.2	6.6
Kelly	22.8	3.9	0.30	55.5	7.0
Marquis	19.7	3.7	0.38	46.4	7.8
Midnight	19.5	3.5	0.31	63.3	5.0
Nassau	16.3	3.7	0.29	63.2	4.9
Ram I	19.1	3.6	0.27	70.8	6.5
Touchdown	16.7	3.7	0.24	51.3	4.0
Victa	21.5	3.6	0.36	56.3	6.7
LSD (.05)	3.5	0.43	0.04	15.9	· 1.5
	Ligule	Hairs ^{3/}	· - : · · · · · · · · · · · · · · · · · · ·	· · · · · ·	,

		-	······································			
	Variety	Length mm	Leaf Ligule	Leaf Margin	Sheath Roughness ^{4/}	Sheath Color ⁵
20	Ba 74-114	0.14	3.3	2.6	8.7	2.0
	Ba73-366	0.23	5.2	4.2	8.5	0.0
	Ba73-381	0.16	3.2	0.7	8.2	2.0
	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
25	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
30	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
35	Touchdown	0.29	1.4	1.3	7.9	8.0
<i></i>	Victa	0.26	2.3	1.7	7.9	0.1
	LSD (.05)	0.04	0.79	0.70	0.89	0.57
		:			· · · · · · · · · · · · · · · · · · ·	

¹/Degrees from the stem

Ba 74-114 has performed well throughout the U.S., as exhibited by medium to high turf quality ratings in comparison to many other Kentucky Bluegrass varieties. In addition, it has a deep dark green color which can be maintained throughout the growing season.

With regard to a comparative analysis conducted for purposes of determining color of Ba 74-114 plants relative to other Kentucky Bluegrass varieties, readings were taken of the vegetative color of Ba 74-114 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 74-114 was determined to be 7.5 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 — 5GY 4/4; Ba 73-366 — 5 GY 4/4; Ba ⁶⁰ 73-540 — 5 GY 4/4; Abbey — 5 GY 3/4; and Coventry — 5 GY 4/4. However, it should be noted that the general apparent color or 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.

²/Rating Scale: 1–9; 1 = curves up; 5 = no curve; 9 = curves down

³/Rating Scale: 0–9; 0 = none; 9 = many

⁴/Rating Scale: 0–9; 9 = dark purple

²/Rating Scale: 1–9; 1 = curves up; 5 = no curve; 9 = curves down

 $^{^{3}}$ Rating Scale: 0–9; 0 = none; 9 = many ⁴/Rating Scale: 1–9; 1 = rough; 9 = smooth

⁵/Rating Scale: 0–9; 0 = no color; 9 = dark purple color

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Comparisons of Ba 74-114 with other Kentucky Bluegrass varieities for quality, genetic color, spring greening and winter color are set forth hereinafter in Tables 9–15:

TABLE 9

			L	ocation	s ^{1/}		
Variety	1	2	3	4	5	6	7
Va 74-114	6.4	7.3	5.4	5.3	4.9	5.3	4.9
3a73-366	7.2	5.1	5.3	4.7	5.0	5.2	4.7
3a73-381	6.9	5.1	5.4	4.2	5.3	4.2	4.1
Abbey	6.9	5.1	5.5	4.9	5.1	3.5	4.2
Able I	7.5	7.3	5.9	5.2	5.7	5.9	4.7
Banff	6.6	6.2	6.1	5.3	4.6	5.1	4.2
Baron	7.2	5.4	5.7	5.0	5.7	5.3	4.6
Challenger	6.6	7.3	4.9	5.9	5.7	5.7	4.8
Classic	6.9	5.5	6.2	5.5	4.3	5.6	4.0
Coventry	6.3	7.2	5.9	5.3	5.8	5.3	4.9
Cclipse	6.7	5.9	6.5	5.7	5.1	5.9	4.9
Estate	7.0	6.4	5.5	5.3	6.0	5.7	5.2
Georgetown	6.6	6.3	6.6	5.7	4.9	5.7	4.1
Hade	7.4	7.5	7.5	5.2	5.6	4.5	4.7
Snome	6.8	5.2	5.0	5.1	5.0	4.8	4.7
Iaga	6.7	5.9	6.3	5.5	5.1	5.7	4.1
Celly	7.2	5.7	5.8	4.1	5.0	5.2	5.1
Kenblue	6.4	2.7	3.3	3.3	3.8	3.2	3.2
iberty	7.0	6.5	6.0	4.7	6.0	5.3	4.2
// Aarquis	6.8	5.4	5.3	5.1	5.5	4.7	5.0
Merion	5.1	2.7	2.7	4.0	4.2	4.8	4.7
Merit	6.9	4.8	4.9	4.5	4.1	4.9	4.7
/lidnight	7.1	7.9	8.3	6.6	4.7	5.7	4.6
Monopoly	6.5	4.9	5.0	4.3	4.8	5.1	3.9
Vassau	6.9	5.8	6.4	4.5	5.5	5.5	3.9
lam I	7.8	7.3	6.0	5.7	5.2	5.2	4.7
South Dakota	6.6	4.3	3.0	2.2	2.1	2.7	3.3
Touchdown	7.2	7.1	4.2	5.2	3.3	5.1	4.8
LSD (.05)	0.8	1.1	0.9	1.0	1.1	0.5	0.7

Rating Scale: 1-0; 9 = ideal turf

¹/Locations: 1 — Ames, IA; 2 — Post Falls, ID; 3 — Adelphia NJ; 4 — Martinsville, NJ; 5 — Hubbard, OR; 6 — pooled data from Halsey, Hubbard and Gervais, OR; 7 --- Haymarket, VA.

TABLE 10

A Comparison of Quality of Ba 74-114 and Other Kentucky Bluegrass Varieties Grown in the Shade in Four Tests (A-D) Conducted at Marysville, OH

		Qualit	y Tests	
Variety	Α	В	С	D
Ba 74-114	3.0	2.7	2.5	3.0
Adelphi	2.5	3.2	2.8	2.8
Bonnieblue	2.6	2.4	2.4	1.8
Bristol	3.0	2.6	2.7	2.9
Fylking	1.9	2.0	2.3	2.5
Merion	2.4	2.5	2.3	1.8
Merit	1.4	1.9	2.2	1.9
Newport	2.4	2.2	2.2	2.3
Nugget	2.2	2.6	2.5	2.3
Park	1.7	2.0	2.2	1.9
Pennstar	1.2	1.8	2.2	1.8
Victa	1.3	1.5	1.8	1.8
Mean	2.1	2.0	2.0	2.1
LSD (.05)	0.7	0.7	0.6	0.7

Rating Scale: 1-5; 5 = ideal turf

TABLE 11

A Comparison of Quality of Ba 74-114 and Other Kentucky Bluegrass Varieties Grown under Shade Conditions in Five Tests (A-E) Conducted at Marysville, OH

		··	(Qualily Test	<u>s</u>	
	Variety	Α	В	С	D	E
10	Ba 74-114	2.1	2.5	1.9	2.1	7.0
	Ba73-366	1.5	1.0	1.6	1.5	6.0
	Ba73-381	1.8	2.3	1.7	1.6	6.5
	Adelphi	1.5	2.5	1.8	1.6	7.5
	Bristol	1.5	1.8	1.6	2.0	6.0
	Dormie	1.5	3.0	1.9	1.7	5.5
15	Glade	1.5	1.4	1.7	2.0	6.0
15	Merion	1.8	1.5	1.4	1.5	5.5
	Monopoly	1.8	3.0	1.9	2.2	7.0
	Nassau	1.6	2.2	1.8	1.7	6.5
	Park	1.5	2.0	1.8	1.7	6.0
	Ram I	1.8	2.2	1.7	1.6	6.0
	Vantage	1.6	2.8	1.8	2.0	6.5
20	Victa	1.7	1.3	1.6	1.3	6.0
	Wabash	1.6	2.8	1.8	2.3	5.5
	Mean	1.6	2.2	1.7	1.7	6.3
	LSD (.05)	0.44	1.2	0.34	0.39	1.2

Rating Scale for Tests A-D: 1-5; 5 = bestRating Scale for Test E: 1-9; 9 = best

TABLE 12

A Comparison of Genetic Color of Ba 74-114 and Other Kentucky Bluegrass Varieties in Three Tests (A-C) Conducted at Ten (10) Locations in the US

	TESTS (Annual Means)				
Variety	Α	В	С		
Ba 74-114	7.0	7.2	7.2		
Ba73-366	5.5	5.5	5.9		
Ba73-381	6.0	5.7	6.4		
Abbey	5.6	5.9	5.8		
Able I	6.6	6.8	6.8		
A-34	5.0	5.4	4.6		
Banff	5.1	6.0	5.5		
Baron	6.0	6.0	5.9		
Classic	5.2	5.9	5.2		
Coventry	5.9	5.6	5.8		
Eclipse	6.3	6.6	6.4		
Estate	5.8	5.3	5.3		
Georgetown	5.2	6.1	5.3		
Glade	6.7	6.3	6.7		
Gnome	6.0	6.1	5.8		
Haga	5.1	5.8	5.3		
Kelly	5.6	5.7	6.1		
Kenblue	4.6	5.0	5.3		
Marquis	6.1	6.1	6.4		
Merion	5.7	5.8	5.4		
Merit	5.7	5.7	6.2		
Midnight	7.1	7.3	7.7		
Monopoly	4.8	4.9	4.8		
Nassau	6.0	6.6	6.5		
Ram I	6.7	5.9	6.6		
South Dakota	4.5	4.8	4.7		
Touchdown	5.5	5.5	5.3		
LSD (.05)	0.5	0.4	0.7		

Rating Scale: 1-9; 9 = dark green.

TABLE 13

A Comparison of Spring Greenup for Ba 74-114 and Other
Kentucky Bluegrass Varieties at Two Locations

	Spri	ng Greenup	
Variety	North Brunswick, NJ	Martinsville, NJ	Mean
Ba 74-114	7.0	5.7	6.3
Ba73-366	4.0	5.0	4.5
Ba73-381	3.3	4.0	3.7
Abbey	3.7	5.7	4.7
Able I	3.7	6.7	5.2
A-34	4.7	6.0	5.3
Banff	5.0	5.3	5.2
Baron	2.3	5.3	3.8
Classic	6.0	5.7	5.8
Coventry	2.7	5.3	4.0
Eclipse	5.3	5.0	5.2
Estate	2.7	5.3	4.0
Georgetown	4.7	4.7	4.7
Glade	3.3	6.7	5.0
Gnome	3.3	6.3	4.8
Haga	4.0	5.3	4.7
Kelly	3.7	6.0	4.8
Kenblue	4.0	5.0	4.5
Liberty	5.3	5.3	5.3
Marquis	3.0	5.7	4.3
Merion	6.3	6.3	6.3
Merit	3.3	6.7	5.0
Midnight	3.3	6.0	4.7
Monopoly	4.0	6.7	5.3
Nassau	6.3	5.0	5.7
Ram I	5.0	7.0	6.0
South Dakota	5.3	3.7	4.5
Touchdown	5.3	7.0	6.2
LSD (.05)	1.2	1.5	0.9

Rating Scale: 1-9; 9 = completely green

TABLE 14

Variety	Spring Greenup	
Ba 74-114	4.7	
Ba73-366	3.0	
Ba73-381	3.3	
Banff	4.0	
Baron	3.5	
Bristol	4.3	
Classic	3.0	
Eclipse	4.3	
Georgetown	4.0	
Glade	3.3	
Kenblue	4.0	
Merion	4.7	
Merit	3.7	
Nassau	4.0	
Newport	4.0	
Park	3.0	
Ram I	3.0	
Vantage	4.3	
Victa	3.3	
LSD (.05)	1.0	

Rating scale: 1-9; 9 = completely green

TABLE 15

,	A Comparison of Win Bluegrass Van	ter Color of Barieties at Two L		
		Loca	tions ^{1/}	
	Variety	1	2	Mean
•	Ba 74-114	2.7	7.0	4.8
10	Ba73-366	3.0	5.7	4.3
	Ba73-381	2.7	2.7	2.7
	Abbey	3.3	5.7	4.5
	Able I	4.0	7.0	5.5
	A-34	4.0	4.3	4.2
	Banff	4.0	5.0	4.5
15	Baron	3.7	3.7	3.7
15	Classic	4.0	5.7	4.8
	Coventry	2.7	4.3	3.5
	Eclipse	3.3	5.7	4.5
	Estate	3.7	5.3	4.5
	Georgetown	4.7	7.0	5.8
20	Glade	2.7	4.7	3.7
20	Gnome	2.7	4.3	3.5
	Haga	3.3	5.3	4.3
	Kelly	3.0	5.3	4.2
	Kenblue	3.3	2.7	3.0
	Liberty	3.3	6.3	4.8
	Marquis	3.3	4.0	3.7
25	Merion	2.3	6.3	4.3
	Merit	3.3	5.3	4.3
	Midnight	3.3	5.3	4.3
	Monopoly	3.3	5.0	4.2
	Nassau	3.0	5.7	4.3
	Ram I	3.7	6.0	4.8
30	South Dakota	1.7	2.0	1.8
_	Touchdown	3.3	5.3	4.3
	LSD (.05)	1.0	1.6	0.9

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

1/Locations: 1 Martinsville, N.J.; 2 pooled data from Halsey, Hubbard and Gervais, OR.

Further comparisons of Ba 74-114 with other Kentucky Bluegrass varieties for leaf texture and height of growth are set forth in Tables 16–17 as follows:

TABLE 16

40	TAB	LE 16
		of Ba 74-114 and Other Kentucky at Martinsville, NJ.
	Variety	Leaf Texture
45	Ba 74-114	4.0
	Ba73-366	4.3
	Ba73-381	4.0
	Abbey	5.0
	Able I	5.7
50	A-34	4.3
50	Banff	5.3
	Baron	5.0
	Classic	5.3
	Coventry	5.0
	Eclipse	5.7
	Estate	4.3
55	Georgetown	6.0
	Glade	5.0
	Gnome	5.3
	Haga	- 5.7
-	Kelly	4.3
	Kenblue	6.0
60	Liberty	5.0
	Marquis	4.3
	Merion	4.0
	Merit	4.7
	Midnight	6.7
	Monopoly	5.0
<i>C</i> =	Nassau	5.0
65	— - 	

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TABLE 16-continued

A Comparison of Leaf Texture of Ba 74-114 and Other Kentucky
Bluegrass Varieties at Martinsville, NJ.

Variety	Leaf Texture
Ram I	5.0
South Dakota	3.7
Touchdown	5.3

Rating Scale: 1-9; 9 = very fine

TABLE 17

A Comparison of Height (in millimeters) One Week after Mowing under Lawn Conditions of Ba 74-114 and Other Kentucky Bluegrass Varieties at Marysville, OH.

Variety	Height (mm)
Ba 74-114	109.5
Adelphi	115.0
Baron	194.3
Bonnieblue	145.0
Bristol	101.3
Fylking	133.0
Kenblue	140.3
Merion	106.7
Newport	135.3
Nugget	120.3
Park	124.7
Pennstar	118.3
Vantage	131.3
Victa	115.7
LSD	24.6

Turf diseases are one of the major causes of inconsistent and poor turf performance. Ba 74-114 has been found to have a medium to high level of resistance to the following 35 diseases: (1) leaf spot and melting out caused by *Drechslera poae* (formerly called *Helminthosporium vagans*); (2) dollar spot caused by *Sclerotinia homoecarpa*; (3) several rust diseases causes by Puccinia spp.; (4) stripe smut caused by *Ustilago striiformis*; and (5) powdery mildew caused by ⁴⁰ *Erysiphe graminis*.

Comparisons of disease incidence of Ba 74-114 as compared with other Kentucky Bluegrass varieties in regard to leaf spot, dollar spot, rusts, stripe smut and powdery mildew are presented in Tables 18–26. An additional comparison is presented in Table 27 for seed yields.

TABLE 18

A Comparison of Leaf Spot Disease Incidence in Ba 74-114
and Other Kentucky Bluegrass Varieties in Tests Conducted
at Three Locations in the U.S.17

Variety	Mean
Ba 74-114	4.7
Ba73-366	4.3
Ba73-381	2.0
Abbey	4.7
Able I	6.0
A-34	4.7
Banff	4.7
Baron	4.0
Classic	3.3
Coventry	3.7
Eclipse	6.3
Estate	4.0
Georgetown	6.0
Glade	3.0
Gnome	3.7

TABLE 18-continued

A Comparison of Leaf Spot Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties in Tests Conducted at Three Locations in the U.S.¹⁷

Variety	Mean
Haga	3.7
Kelly	4.7
Kenblue	1.7
Liberty	5.7
Marquis	3.7
Merion	7.3
Merit	4.3
Midnight	5.7
Monopoly	4.3
Nassau	4.3
Ram I	4.3
South Dakota	1.0
Touchdown	5.3
LSD (.05)	1.5

Rating Scale: 1-9; 9 = no disease

¹/Locations: Pooled data from Halsey, Hubbard and Gervais, OR.

TABLE 19

A Comparison of Leaf Spot Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties in Tests Conducted at Marysville, OH

Variety	% Leaf Spot
Ba 74-114	10.0
Adelphi	33.3
Baron	26.7
Bonnieblue	10.0
Bristol	16.7
Kenblue	76.7
Merion	23.3
Newport	50.0
Park	73.3
Pennstar	13.3
Vantage	40.0
Victa	26.7
LSD (.05)	18.7

TABLE 20

A Comparison of Leaf Spot Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties Grown under Shade Conditions at Marysville, OH

Variety	% Leaf Spot
Ba 74-114	0.0
Ba73-366	0.0
Ba73-381	0.0
America	40.0
Banff	2.5
Bristol	0.0
Classic	5.0
Eclipse	2.5
Georgetown	7.5
Glade	7.5
Kenblue	10.0
Merion	0.0
Merit	0.0
Nassau	0.0
Newport	0.0
Park	50.0
Ram I	40.0
Sydsport	27.5
Vantage	2.5
Victa	2.5
LSD (.05)	26.7

TABLE 21

A Comparison of Dollar Spot Disease Incidence of Ba 74-114		
and Other Kentucky Bluegrass Varieties at Kingston, R.I.		
Variety	Dollar Spot	

Variety	Dollar Spot	
Ba 74-114	8.3	···
Ba73-366	8.3	
Ba73-381	7.3	
Abbey	8.0	
Able I	8.3	
A-34	7.7	
Banff	7.7	
Baron	7.7	
Classic	8.0	
Coventry	7.7	
Eclipse	8.3	
Estate	8.3	
Georgetown	8.0	
Glade	7.7	
Gnome	8.0	
Haga	7.7	
Kelly	8.0	
Kenblue	8.0	
Liberty	8.0	
Marquis	8.0	
Merion	7.7	
Merit	8.0	
Midnight	8.3	
Monopoly	8.0	
Nassau	8.0	
Ram I	7.3	
South Dakota	8.0	
Touchdown	8.0	
LSD (.05)	0.9	

Rating Scale: 1-9; 9 = no disease

TABLE 22

Variety	% Dollar Spot	
Ba 74-114	0.0	
Baron	20.7	
Bonnieblue	0.0	
Bristol	0.0	
Kenblue	3.3	
Merion	20.0	
Newport	0.3	
Nugget	26.0	
Park	0.0	
Pennstar	0.7	
Vantage	0.3	
Victa	1.7	
LSD (.05)	13.9	

TABLE 23

A comparison of Powdery Mildew Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties Grown under Shade Conditions in Three Tests (A-C) Conducted at Marysville, OH

		% Powd	ery Mildew		
Variety	Α	В	С	Mean	
Ba 74-114	0.0	10.0	0.0	3.3	
Ba73-366	30.0	72.5	80.0	60.8	
Ba73-381	67.5	90.0	70.0	75.8	
Banff	0.0	0.0	15.0	5.0	
Bristol	5.0	12.5	0.6	5.8	
Classic	27.5	60.0	75.0	54.2	
Eclipse	0.0	5.0	0.0	1.7	

TABLE 23-continued

A comparison of Powdery Mildew Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties Grown under Shade Conditions in Three Tests (A-C) Conducted at Marysville, OH

		% Powdery Mildew			,·- <u>,</u> ·-
, –	Variety	Α	В	С	Mean
_	Georgetown	7.5	30.0	0.0	12.5
	Glade	50.0	45.0	25.0	40.0
	Kenblue	0.0	10.0	0.0	3.3
	Merion	35.0	37.5	40.0	37.5
	Merit	50.0	65.0	85.0	66.7
i	Nassau	32.5	40.0	0.0	24.2
	Newport	20.0	25.0	15.0	20.0
	Park	0.0	2.5	0.0	0.8
	Ram I	20.0	17.5	0.0	12.5
	Vantage	0.0	22.5	15.0	12.5
	Victa	50.0	50.0	70.0	56.7
	Mean	20.3	32.6	26.4	26.4
	LSD (.05)	33.9	29.6	49.3	

TABLE 24

A Comparison of Leaf Rust Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties at Kingston, R.I.

	and Other Kentucky Bluegrass varieties at Kingston, R.I.		
	Variety	Leaf Rust	
	Ba 74-114	6.7	
30	Ba73-366	5.7	
50	Ba73-381	6.3	
	Abbey	6.3	
	Abel I	7.0	
	A-34	6.0	
	Banff	7.0	
25	Baron	8.3	
35	Classic	8.7	
	Coventry	7.0	
	Eclipse	5.7	
	Estate	6.3	
	Georgetown	7.7	
	Glade	7.0	
40	Gnome	6.7	
	Haga	7.0	
	Kelly	5.0	
	Kenblue	6.7	
	Liberty	7.3	
	Marquis	6.3	
45	Merion	2.3	
	Merit	6.0	
	Midnight	6.0	
	Monopoly	5.3	
	Nassau	7.0	
	Ram I	6.7	
50	South Dakota	6.7	•
50	Touchdown	3.7	
	LSD (.05)	2.4	

Rating Scale: 1-9; 9 = no disease

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TABLE 25

A Comparison of Stripe Rust Disease Incidence in Ba 74-114 and Other Kentucky Bluegrass Varieties in Tests Conducted at Three Locations¹/ in Oregon 1991.

^	Variety	Stripe Rust	~~~~
0		Dulpe Rust	
	Ba 74-114	5.7	··· • •
	Ba73-366	5.0	
	Ba73-381	4.7	
	Abbey	4.3	
ς .	Able I	6.0	
J	A-34	5.0	

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TABLE 25-continued

A Comparison of Stripe Rust Disease Incidence in Ba 74-114
and Other Kentucky Bluegrass Varieties in Tests Conducted
at Three Locations ¹ in Oregon 1991.

 Variety	Stripe Rust	
Banff	6.0	
Baron	6.0	
Classic	6.3	
Coventry	5.0	
Eclipse	6.0	
Estate	5.7	
Georgetown	6.3	
Glade	3.0	
Gnome	4.7	
Haga	6.3	
Kelly	5.0	
Kenblue	3.3	
Liberty	5.3	
Marquis	5.3	
Merion	3.7	
Merit	5.0	
Midnight	4.7	
Monopoly	5.3	
Nassau	5.3	
Ram I	6.0	
South Dakota	4.0	
Touchdown	3.0	
LSD (.05)	1.2	

Rating Scale: 1-9; 9 = no disease

TABLE 26

A Comparison of Stripe Smut Disease Incidence in Ba 74-114
and Other Kentucky Bluegrass Varieties at Marysville, OH.

Variety	Stripe Smut	
Ba 74-114	8.0	
Ba73-366	6.3	
Ba73-381	7.0	
America	6.7	
Banff	8.0	
Baron	8.0	
Bonnieblue	8.0	
Bristol	7.7	
Classic	8.0	
Eclipse	7.3	
Georgetown	7.7	

TABLE 26-continued

A Comparison of Stripe Smut Disease Incidence in Ba 74-114

	and Other Kentucky Bluegrass Varieties at Marysville, OH.		
	Variety	Stripe Smut	
	Glade	7.7	
	Kelly	6.3	
	Kenblue	7.0	
}	Merion	7.7	
	Merit	5.7	
	Nassau	7.7	
	Newport	7.3	

6.7

5.0

Rating Scale: 1-9; 9 = least disease

Park

Ram I

victa

Vantage

LSD (.05)

TABLE 27

A Comparison of Seed Yields of Ba 74-114 and Other Kentucky Bluegrass Varieties at Gervais, Oregon.

Variety	Lbs/Acre	
Ba 74-114	427	-
Abbey	919	
Georgetown	654	
Gnome	706	
Marquis	900	
LSD (.05)	248	

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 a broad spectrum of serious diseases, including leaf spot and melting out disease, dollar spot, rusts, stripe smut and powdery mildew; a dark green color throughout the growing season; medium to high quality turf formation under a wide variety of environmental conditions; a moderately wide blade; a low growth habit; and a medium level of seed yielding capacity.

* * * *

^{1/}Pooled data from Halsey, Hubbard and Gervais, Oregon.

FIG. 1

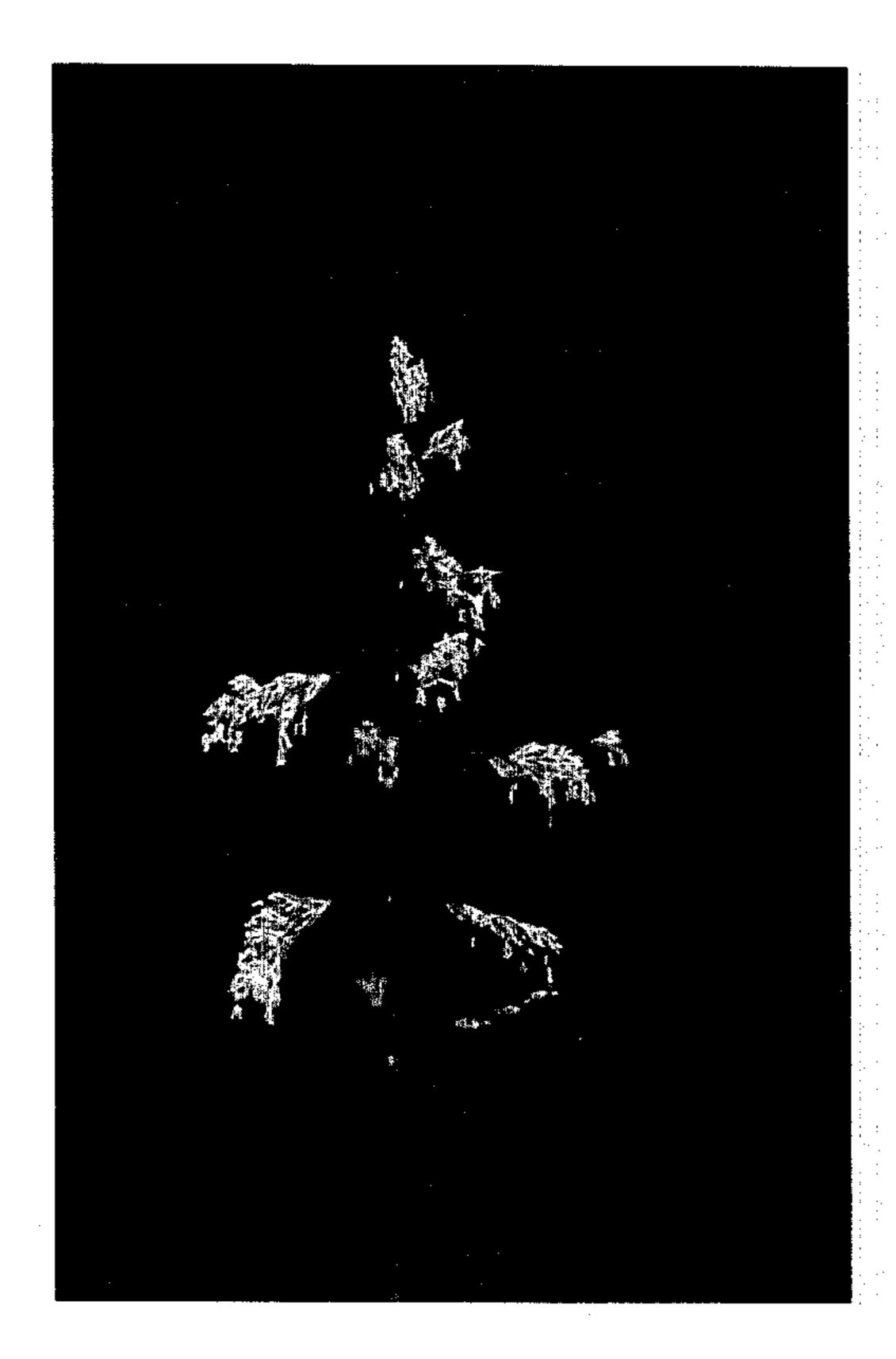


FIG. 2

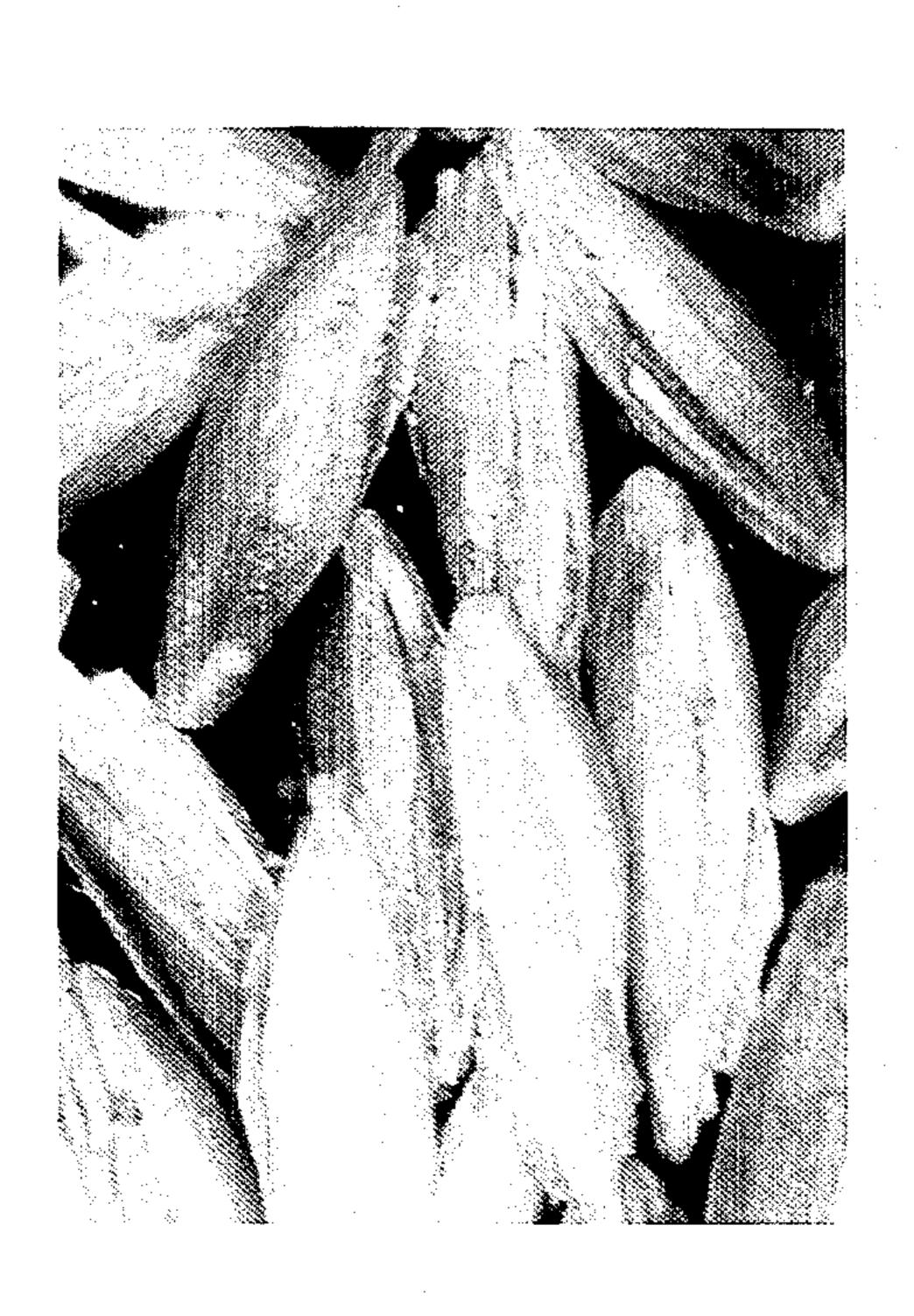


FIG. 3

