MN2000 FSA/37



# AGRICULTURAL EXTENSION SERVICE

DOCUMENTS

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ST. PAUL CAMPUS

### AGRONOMY FACT SHEET No.37 LADDIE J. ELLING

Sixty-five Kentucky Bluegrass varieties grown in experi-mental trials were seed in 1972, 1973, 1975, 1976, 1977, or 1979 near Roseau, Minnesota. Seed for these trials was submitted by seed company representatives, growers, or others interested in the seed production potential of the variety.

Each entry was seeded in 1  $\times$  4 meter plots in three replications except in 1976 when two replications were seeded. Broad-leaved weeds were controlled when 2, 4-D and/or dicamba and 500 lb/A of 20+10+10 fertilizer was applied in October each year. This rate is considered satisfactory for screening but may be less or more than optimum for individual varieties. A square meter sample was harvested from each plot, dried, and transported to St. Paul for threshing and processing. The residue was normally removed by desiccanting the plant material, letting it dry and then burning it. The desic-cants were paraquat with surfactant or dinoseb plus oil.

#### The data reported are as follows:

 $\label{eq:Maturity} \begin{array}{c} \underline{Maturity} \mbox{ is the average harvest date; all dates are for July. Two varieties, Holt and Troy, are one or two days earlier than Park. All others are equal or later than Park,$ some as much as 12 days later.

## **Performance of Kentucky Bluegrass Varieties**

Lodging rating is the average over tests and years, where 1 represents no lodging and 5 equals severe lodging. The fertilizer rate may have causes excessive lodging as it is not optimum for all varieties.

Plant height at harvest reported in inches, is the distance from ground level to the top of the panicle. The range in height was from 15 inches for Skofti to 36 for Troy; Park averaged 32 inches. In lodged material the culms were pulled erect for measurement.

Seed yields are reported as a percent of test average for the years a given trial was harvested. Park produced 155% of the test average for the two years harvested from the 1972 seeding. This yield of Park was 644 lb/A. The lowest average yield for all trials was 40% for Welcome and the highest was 157% for Enprima. The least significant differences are large, but generally, the year-to-year yields are consistent for different trials. When the difference between two yields exceeds the LSD, the varieties are judged to have different yield potential. Test average seed yields in pounds per acre ranged from 198 for the test seeded in 1975, to 561 for the 1979 seeding. Dry and warm weather in 1976 and 1977 caused lower than normal seed yields reported for the 1973 and 1976 seedings.

#### Harvest date, maturity, lodging, harvest height, and seed yields

for 65 Kentucky Bluegrass Varieties, 1972-1981.

Varleties	Harvest date*	Lodging	Harvest height in inches	Data years	1972 (2)+	1973 (2)	1975 (3)	1976 (2)	1977 (2)	1979 (1)	Average
						Yi	ields % of	test avera	ge		
A-20 (Warrens) Adelphi	7~15 7-13	1.8 1.3	24 26	4	73		81	34 77	49 94		42 81
Aquila Arista	7-11 7-12	1.9 1.3	23 20	10 10	85	124	63 144	128 128	118 124	74 118	93 130
Aspen	7-13	1.9	27	6		124	56	118	124	128	89
Banff Baron	7-14 7-11	4.3 1.1	27 23	1 8			139	122	146	110 177	110 141
Bensun Birka	7-13 7-11	2•4 1•0	30 22	4	89			84 74	85	177	85
Bonnie blue	7-12	1.0	22	5	69		65 49	74 66			74 56
Cheri Claudia	7-11 7-11	1.0 2.0	24 27	7			140	108	123	105	126 105
Cougar Delf†	7–9 7–6	1.0	20 26	5	129		105 138	116 115		105	109 129
Dormie	7-8	2.7	25	1	125		150	115		109	109
Eda Enmundi	7-12 7-11	1.0 1.5	18 24	4 8			83	74 87	69 101	98	72 90
Enoble Enprima	7-12 7-9	2.3 1.7	24 24	9	100 144		86 213	127 155	97 87		101 157
Entopper	7-15	2.0	25	1						115	115
Escort Fanfare Fylking	7-14 7-10 7-5	5.0 2.2 1.3	27 30 20	1 7 7		83	112 35	80 75	84	83	83 95 60
Galaxy Gardi	7-9 7-16	1.0 1.7	21 21	5			84	71	87	74	79 83

Geronimo 7-10   Glade 7-11   Golf 7-9   Granada 4-14   Holt 7-3   Kimono 7-13   Majestic 7-10   Motor 7-9   Merion 7-6   Monopoly 7-14   Mosa 7-14   Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Primo 7-6   Ram I 7-11   Rul-128 7-9   RU-154 7-18   RU-178 7-12   Rugby 7-12   Rugby 7-13   Sodco	1.5 1.0 2.8 1.3 2.2	28 21 27 23 24 20	3 8 7 3 1 3	<u>(2)+</u>  56	Yle	elds ≴of 44 130	(2) test averag 81 121	je 144	156	148
Glade 7-11   Gorinada 4-14   Holt 7-3   Kimono 7-13   Majestic 7-10   Metron 7-9   Metrion 7-14   Mosa 7-14   Mosa 7-12   Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-6   Ram I 7-11   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.5 1.0 2.8 1.3 2.2 1.0 2.3 2.0	21 21 27 23 24 20	8 7 3 1	56		44	81			140
Glade 7-11   Gorinada 4-14   Holt 7-3   Kimono 7-13   Majestic 7-10   Metron 7-9   Metrion 7-14   Mosa 7-14   Mosa 7-12   Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-6   Ram I 7-11   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.5 1.0 2.8 1.3 2.2 1.0 2.3 2.0	21 21 27 23 24 20	8 7 3 1	56	117			144		140
Golf 7-9   Granada 4-14   Holt 7-3   Kimono 7-13   Majestic 7-10   Metor 7-9   Merion 7-6   Monopoly 7-14   Mosa 7-14   Mosa 7-14   Makrika 7-13   Nakrika 7-13   Nugget 7-10   Nugget 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-7   Primo 7-6   Rull 7-11   Rum II 7-10   RU-154 7-18   RU-154 7-18   RU-178 7-12   Skoftii 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Trampas 7-9	1.0 2.8 1.3 2.2 1.0 2.3 2.0	21 27 23 24 20	7 3 1		117				79	61
Holt 7-3   Kimono 7-13   Majestic 7-10   Merion 7-9   Merion 7-14   Mosa 7-14   Nosa 7-14   Nosa 7-12   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Rum II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sydsport 7-13   Tivoli 7-17   Trampas 7-10   Trampas 7-10	1.3 2.2 1.0 2.3 2.0	23 24 20	1				141			124
Kimono 7-13   Majestic 7-10   Metor 7-9   Metor 7-9   Merion 7-6   Monopoly 7-14   Mosa 7-14   Nakrika 7-13   Newport 7-10   Nugget 7-12   Orna 7-12   Parade 7-13   Parade 7-13   Parade 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ram I 7-11   Rum II 7-11   Ruppy 7-12   Skofti 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Trampas 7-9	2.2 1.0 2.3 2.0	24 20	-					83	78	81
Majestic 7-10   Metor 7-9   Merion 7-6   Monopoly 7-14   Mosa 7-14   Mosa 7-14   Nakrika 7-13   Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-6   Ram I 7-11   Ramm II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.0 2.3 2.0	20	3						86	86
Majestic 7-10   Metor 7-9   Merion 7-6   Monopoly 7-14   Mosa 7-14   Mosa 7-14   Nakrika 7-13   Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Primo 7-6   Ram I 7-11   Ramm II 7-10   Nul-128 7-9   RU-178 7-12   Skoftii 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.0 2.3 2.0	20						95	. 96	95
Merion 7-6 Monopoly 7-14   Mosa 7-14   Nakrika 7-13   Newport 7-10   Nugget 7-12   Oiymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-12   Prarde 7-13   Parate 7-12   Prarto 7-7   Primo 7-6   Ram I 7-11   Run 12 7-10   RU-128 7-9   RU-178 7-12   Skofti 7-13   Sodco 7-13   Svgsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	2.0		5			67	95			78
Monopoly 7-14   Mosa 7-14   Nakrika 7-13   Newport 7-10   Nugget 7-12   Otymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Rum II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9		23	1						64	64
Mosa 7-14   Nakrika 7-13   Namport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Parade 7-12   Parade 7-12   Parade 7-13   Parato 7-7   Primo 7-6   Ram I 7-11   Ram I 7-11   Rul-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Svdsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	3.7	25	. 5			86	106			94
Nakrika 7-13   Newport 7-10   Nugget 7-12   Otymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ruburt 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9		28	7			125	125	98		117
Newport 7-10   Nugget 7-12   Olymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ram I 7-10   RU-128 7-9   RU-154 7-18   RU-154 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.8	26	3					95	96	95
Nugget Olymprisp 7-12 7-10   Orna Parade 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ramn I 7-11   Ramm II 7-11   Rugby 7-12   Skofti 7-7   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.9	26	4				76	111		91
Otymprisp 7-10   Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ram II 7-11   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skoftii 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	2.1	28	7			179	138	182		168
Orna 7-12   Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ramm II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9		18	8			90	70	103	78	87
Parade 7-13   Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ram I 7-11   Rum II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	2.3	28	9		120	147	123	160		139
Park 7-5   Pennstar 7-12   Prato 7-7   Primo 7-6   Ram I 7-11   Ram II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-10   Tivoli 7-17   Touchdown 7-10   Trampas 7-9		26	7			92	84	80		. 86
Pennstar Prato 7-12 7-7   Primo 7-6   Ram I 7-11   Ramm II 7-10   Rup-128 7-9   RU-154 7-18   RU-178 7-12   Skofti 7-12   Skofti 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9		27	10	100		126	121	113	106	115
Prato 7-7   Primo 7-6   Ram I 7-11   Ram I 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	3.8	31	12	155	129	155	135	93	116	134
Primo 7-6   Ram I 7-11   Ramm II 7-10   RU-128 7-9   RU-154 7-18   RU-154 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15		20	9	46	50	62	87			61
Ram I 7-11   Ramm II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9	1.0	21	5			90	80			86
Ramm II 7-10   RU-128 7-9   RU-154 7-18   RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-10   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15	2.3	27	7	137		166	133			148
RU-128 7-9   RU-154 7-18   RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15	1.4	21	6			62	96		122	83
RU-154 7-18   RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-15   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15	1.0	20	5			75	86			79
RU-178 7-12   Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15	1.7	26	7			109	142	114		120
Rugby 7-12   Skofti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15	2.2	27	2					118		118
Skotti 7-13   Sodco 7-13   Sydsport 7-13   Tivoli 7-17   Touchdown 7-10   Trampas 7-9   Trenton 7-15		24	7			67	101	80		80
Sodco 7-13 Sydsport 7-13 Tivoli 7-17 Touchdown 7-10 Trampas 7-9 Trenton 7-15		28	5				123	103	120	114
Sydsport 7-13   Tivoli 7-17   Fouchdown 7-10   Trampas 7-9   Trenton 7-15		15	4				27	60		44
Tivoli 7-17 Touchdown 7-10 Trampas 7-9 Trenton 7-15		24	9	88	81	68	86			79
Touchdown 7-10   Trampas 7-9   Trenton 7-15	1.0	23	7	98		129	101			112
Trampas 7-9 Trenton 7-15	1.7	20	3					66	91	74
Trenton 7-15		27	8			75	79	40	49	63
	1.0	19	5			86	105			94
Irov 7-4	2.6	28	3					118	92	109
	2.0	34	3				127		82	112
Turnier 7-14	1.1	24	4				118	93		106
Vanessa 7~10	1.3	26	3					82	125	96
Vantage 7-10	3.0	29	5			54	78			64
Victa 7-9	1.0	21	5			136	152		<i>c</i> -	142
Welcome 7-9	2.3	23	1						40	40
L.S.D. at 5% level			32	NS	30	38	28	26		
Average yield in 15/A				416	269	198	561	458	559	

\* All dates in July

\*\* 1= no lodging, 5= severe lodging

+ Number of years harvested

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