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Performance of Kentucky Bluegrass Varieties

Sixty-five Kentucky Bluegrass varieties grown in experimental 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 x 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 desiccating the plant material, letting it dry and then burning it. The desiccants were paraquat with surfactant or dinoseb plus oil.

The data reported are as follows:

Maturity 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.

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.

Varieties	Harvest date*	Lodging	Harvest height in inches	Data years	Year test seeded						Average
					1972 (2)+	1973 (2)	1975 (3)	1976 (2)	1977 (2)	1979 (1)	
-----Yields % of test average-----											
A-20 (Warrens)	7-15	1.8	24	4				34	49		42
Adelphi	7-13	1.3	26	9	73		81	77	94		81
Aquila	7-11	1.9	23	10	85		63	128	118	74	93
Arista	7-12	1.3	20	10		124	144	128	124	118	130
Aspen	7-13	1.9	27	6			56	118		128	89
Banff	7-14	4.3	27	1						110	110
Baron	7-11	1.1	23	8			139	122	146	177	141
Bensun	7-13	2.4	30	4				84	85		85
Birka	7-11	1.0	22	7	89		65	74			74
Bonnie blue	7-12	1.0	22	5			49	66			56
Cheri	7-11	1.0	24	7			140	108	123		126
Claudia	7-11	2.0	27	1						105	105
Cougar	7-9	1.0	20	5			105	116			109
Delft	7-6	1.8	26	7	129		138	115			129
Dormie	7-8	2.7	25	1						109	109
Eda	7-12	1.0	18	4				74	69		72
Enmundi	7-11	1.5	24	8			83	87	101	98	90
Enoble	7-12	2.3	24	9	100		86	127	97		101
Enprima	7-9	1.7	24	9	144		213	155	87		157
Entopper	7-15	2.0	25	1						115	115
Escort	7-14	5.0	27	1						83	83
Fanfare	7-10	2.2	30	7			112	80	84		95
Fyking	7-5	1.3	20	7		83	35	75			60
Galaxy	7-9	1.0	21	5			84	71			79
Gardi	7-16	1.7	21	3					87	74	83

Varieties	Harvest date*	Lodging	Harvest height in inches	Data years	Yields % of test average						Average
					1972 (2)+	1973 (2)	1975 (3)	1976 (2)	1977 (2)	1979 (1)	
Geronimo	7-10	2.1	28	3					144	156	148
Glade	7-11	1.5	21	8	56		44	81		79	61
Golf	7-9	1.0	21	7		117	130	121			124
Granada	4-14	2.8	27	3					83	78	81
Holt	7-5	1.3	23	1						86	86
Kimono	7-13	2.2	24	3					95	96	95
Majestic	7-10	1.0	20	5			67	95			78
Metor	7-9	2.3	23	1						64	64
Merion	7-6	2.0	25	5			86	106			94
Monopoly	7-14	3.7	28	7			125	125	98		117
Mosa	7-14	1.8	26	3					95	96	95
Nakrika	7-13	1.9	26	4				76	111		91
Newport	7-10	2.1	28	7			179	138	182		168
Nugget	7-12	1.1	18	8			90	70	103	78	87
Olympisp	7-10	2.3	28	9		120	147	123	160		139
Orna	7-12	1.5	26	7			92	84	80		86
Parade	7-13	2.6	27	10	100		126	121	113	106	115
Park	7-5	3.8	31	12	155	129	155	135	93	116	134
Pennstar	7-12	1.8	20	9	46	50	62	87			61
Prato	7-7	1.0	21	5			90	80			86
Primo	7-6	2.3	27	7	137		166	133			148
Ram I	7-11	1.4	21	6			62	96		122	83
Ram II	7-10	1.0	20	5			75	86			79
RU-128	7-9	1.7	26	7			109	142	114		120
RU-154	7-18	2.2	27	2					118		118
RU-178	7-12	1.3	24	7			67	101	80		80
Rugby	7-12	2.5	28	5				123	103	120	114
Skofiti	7-13	1.1	15	4				27	60		44
Sodco	7-13	1.6	24	9	88	81	68	86			79
Sydsport	7-13	1.0	23	7	98		129	101			112
Tivoli	7-17	1.7	20	3					66	91	74
Touchdown	7-10	2.1	27	8			75	79	40	49	63
Trampas	7-9	1.0	19	5			86	105			94
Trenton	7-15	2.6	28	3					118	92	109
Troy	7-4	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			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 lb/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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