

# SEED RESEARCH REPORTS



**Yukon** (OKS91-11) seeded turf-type bermudagrass is the best choice for turf managers needing an exceptional seeded bermudagrass, no matter what bermuda growing zone they are in – world-wide! Developed by the Oklahoma State University Turfgrass Research Team, in conjunction with the USGA. This seeded bermudagrass is a synthetic variety produced by the intercrossing of five parental plants that were selected in 1990 from a cold hardy study, based on high turf quality. **Yukon** is the most dramatic improvement in seeded bermudagrass varieties to date.

## ADVANTAGES

**Yukon** uses up to 25% less water than other bermudagrasses, while maintaining superior turf quality, according to university studies. In Oklahoma, Mississippi and Arkansas, **Yukon** has surpassed all other seeded varieties and many of the vegetative varieties for Spring Dead Spot resistance, Early Spring Green-up and Winter Survival. **Yukon's** performance exceeds many sod or seeded bermudagrass varieties available today.

## PERFORMANCE

**Yukon** has expanded the bermudagrass planting zone — it is the turfgrass professional's top choice for projects from the Equator to the Transition zones of the world. In trials, it has shown excellent turf quality and winter hardiness at both 0.5 inch and 1.5 inch mowing heights. **Yukon** has consistently outperformed other seeded turf bermudagrasses in the NTEP trials, as well as other test sites across the United States and overseas. Golf superintendents, parks and sports field managers, landscapers, as well as other quality turf professionals will find this improved turf-type seeded bermudagrass an advanced performer. **Yukon** can be seeded on new projects, as well as interseeded into existing turf of similar quality. Highest ratings for turfgrass quality, color, density and texture, rank **Yukon** Bermudagrass as the best choice for turf managers, wherever bermudagrass is grown. Additionally, with its excellent winter survival and cold tolerance, **Yukon** becomes a stand-alone choice for transition zone plantings.

## BENEFITS

- Early Spring Green-up
- Top NTEP ratings for turf quality
- Higher stolon density
- Uniform, dark green color
- Short internodes
- Ultra dense, ultra fine texture
- Superb winter hardiness
- Outstanding drought tolerance
- Spring Dead Spot resistance
- Excellent alternative to sprigs & sod
- Reduced vertical growth
- Increased Fall color retention

## ESTABLISHMENT

- Seed new turf: 2-3 pounds per 1,000 square feet (90-125 pounds per acre)
- Seedling Emergence: 7-10 days
- First Mowing: Approximately 21 days
- Full coverage: 30 days
- First limited use: 60-90 days

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IMPROVEMENT THRU RESEARCH

## Turfgrass Ratings of Commercial Bermudagrass Cultivars Planted 1997, Oklahoma State University, Stillwater, OK

Seeded Entry	Texture <sup>1</sup>	Spring Green-up <sup>2</sup>	Winter Kill <sup>3</sup>	Genetic Color <sup>4</sup>	Vegetative Entry	Texture <sup>1</sup>	Spring Green-up <sup>2</sup>	Winter Kill <sup>3</sup>	Genetic Color <sup>4</sup>
Yukon (OKS91-11)	7.3	3.6	18.3	7.0	Midlawn	8.0	5.3	5.0	7.0
Princess 77	7.3	1.3	60.0	7.0	Tifgreen	8.0	4.3	16.6	6.6
Riviera (OKS95-1)	7.0	3.6	15.0	7.3	Tifway 419	8.0	2.0	20.0	8.0
Jackpot	6.6	3.0	30.0	5.0	Tifsport	8.0	2.6	23.3	8.0
Savannah	6.3	2.6	33.3	5.3	<i>LSD*</i>	0.7	1.1	12.2	0.7
Sydney	6.3	3.0	38.3	5.0					
Pyramid	6.3	1.6	48.3	5.0					
Blackjack	6.0	2.6	28.3	5.6					
Mirage	6.0	3.0	30.0	5.3					
Majestic	6.0	2.3	41.6	5.3					
Sahara	5.6	3.6	33.3	5.6					

<sup>1</sup> - Texture was rated on a 1-9 scale (1=coarse texture, 9=fine texture) - data August 16, 2000  
<sup>2</sup> - Spring greenup was rated on a 1-9 scale (1=completely dormant, 9=completely green) - data March 24, 2000  
<sup>3</sup> - Winter kill was rated on a 0-99 scale (0=no winter kill, 99=loss of 99 percent of turf area) - data April 5, 2000  
<sup>4</sup> - Genetic color was rated on a 1-9 scale (1=light green, 9=dark green) - data May 15, 2000  
\*—To determine statistical differences among entries, subtract one mean from the other. Statistical differences occur when this value is larger than the corresponding LSD value (LSD 0.05).

### RECOVERY FROM WINTER INJURY EFFECT OF CULTIVAR - SEEDED BERMUDAGRASS University of Arkansas - Fayetteville, AR

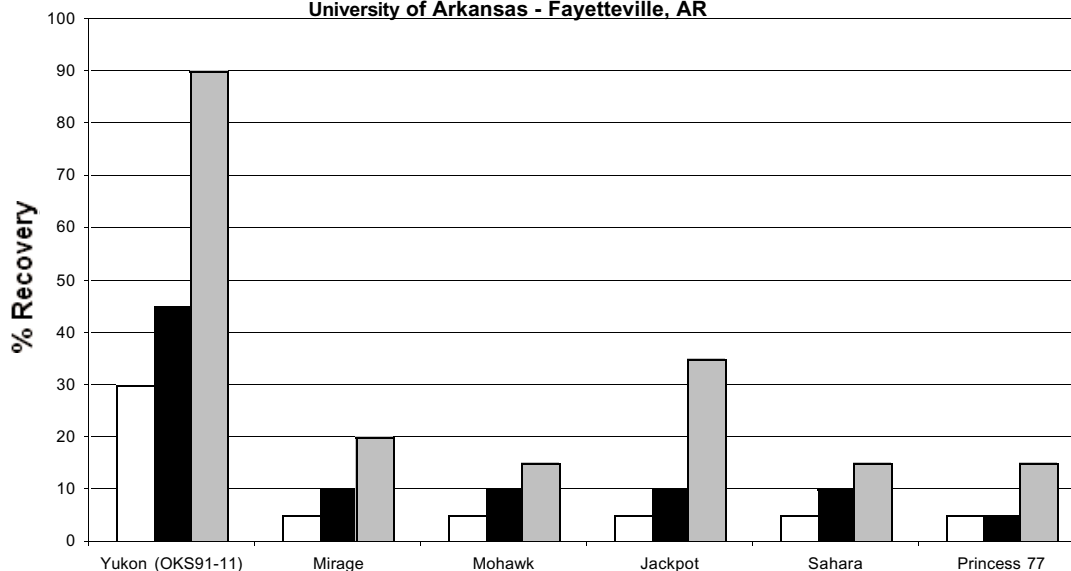


Chart reflects the average % of recovery from original planting dates in summer 2000.  
Results were taken on the following dates.

□ 15-Apr-01   ■ 1-May-01   ▨ 15-May-01

## Spring Dead Spot Ratings of Commercial Bermudagrass Cultivars Oklahoma State University, Stillwater, OK

Seeded Entry	2000	2001	2002	Vegetative Entry	2000	2001	2002
Yukon (OKS91-11)	167	345	678	Midlawn	20	45	99
Riviera (OKS95-1)	795	1116	1595	Tifsport	473	927	996
Mirage	747	1626	1923	Tifgreen	486	1118	2125
Blackjack	751	1372	2035	Tifway 419	469	1133	2754
Savannah	717	1731	2186	<i>LSD*</i>	698	1096	1129
Sydney	834	1257	2642				
Pyramid	1093	2417	2886				
Transcontinental	806	2124	3178				
Princess 77	1947	3727	3312				

Mean Spring Dead Spot necrotic patch area (cm<sup>2</sup>) during April 2000, 2001 and 2002. Plots were inoculated in September 1997, with a blend of *Ophiosphaerella herpotricha* isolates KS107, KS112 and KS188 to test for resistance to multiple strains of Spring Dead Spot.