

PALMILLA

High Quality Versatile Bermudagrass Turf-Type for Sports Fields, Residential Lawns, Parks, Schools, Golf Course Tees & Fairways

FEATURES

Unique Genetic Source
for higher genetic diversity

Excellent Seedling Vigor
for early establishment

Very Dark Green in Color
and high turf density

Reduced Invasion
by crabgrass & summer weeds

Superior Adaptation
for higher humidity areas
& acidic soils

Wide Range of Soil Conditions

Reduced Height of Growth
for less scalping injury

Good Disease Resistance
Spring dead spot & leaf spot

Uses: Sports fields, golf tees,
fairways, parks, schools & lawns

BENEFITS

Versatile for All Sites

**Excellent Repairs for Any
Bermudagrass**

**High Heat, Drought & Salt
Tolerance**

Reduced Inputs

**Great for Blending with
Other Improved Seeded
Bermudagrass**

ESTABLISHMENT

**Germination: 5-7 days under
optimal conditions**



PALMILLA BERMUDAGRASS SEED BENEFITS

- ✓ **Supreme Early Spring Green-Up and Leaf Texture**
- ✓ **Top Ratings for Turf Quality and Performance**
- ✓ **Higher Shoot, Rhizome, Root Density**
- ✓ **Excellent Dark Green Color Rating**
- ✓ **Increased Fall Density, Color and Leaf Texture**

DEVELOPMENT

PALMILLA (PST-R6T9S) was developed by Pure-Seed Testing, Inc. (PST), Rolesville, North Carolina, as part of a breeding program to improve bermudagrass cultivars for turf. The parent material of **PALMILLA** originated as U.S. collections.

The parents of Palmilla were selected under reduced light in the greenhouse. These plants maintained a healthy green color, short internodes, and density under 70% shade.



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Table 1. Fall density & leaf texture ratings of seeded bermudagrass cultivars evaluated at Mississippi State University in 2015.

ENTRY	FALL DENSITY †	LEAF TEXTURE ‡
Princess 77	7.0 ¹	7.0 ²
Palmilla	6.7	6.0
Sun Queen	6.7	6.0
Riviera	6.7	6.0
Jubilee	6.7	6.0
North Shore SLT	6.0	5.3
Chilly Verde	6.0	5.3
NuMex Sahara	6.0	5.3
Casino Royale	5.3	5.0
Transcontinental	5.7	5.0
Yukon	4.7	4.3
LSD (0.05)	0.7	0.6
CV (%)	6.5	6.4

¹9 = most dense; ²9 = finest leaf texture

† Fall density rated 5 November 2015 ‡ Leaf texture rated 10 November 2015

Table 4. 2016 mean turf quality ratings for bermudagrass cultivars seeded summer of 2014 at Mississippi State University and maintained at a 0.5" mowing height.

ENTRY	19 APR	27 MAY	23 JUNE	26 JULY	26 AUG	27 SEP	27 OCT	18 NOV	MEAN
Riviera	6.0 ¹	6.0	6.7	6.3	7.0	6.7	6.7	7.0	6.5
Princess 77	5.0	6.3	6.7	6.7	6.7	6.7	6.3	6.7	6.4
Jubilee	6.0	6.0	6.3	6.3	6.7	6.3	6.3	6.3	6.3
Sun Queen	5.3	6.0	6.0	6.0	6.7	6.7	6.3	6.3	6.2
Palmilla	5.3	5.7	6.0	6.3	6.3	6.3	6.3	6.3	6.1
North Shore SLT	5.0	5.3	5.0	5.0	5.0	5.0	5.3	5.3	5.1
Chilly Verde	4.7	4.7	5.3	5.0	5.3	5.3	5.3	5.3	5.1
Yukon	4.0	4.3	5.0	5.0	5.7	5.7	5.7	5.7	5.1
NuMex Sahara	4.3	5.0	5.0	5.0	5.7	5.3	5.3	5.3	5.1
Casino Royale	4.3	4.7	5.0	5.0	5.3	5.3	5.0	5.3	5.0
Transcontinental	4.7	4.7	5.0	5.0	5.0	5.0	5.3	5.3	5.0
LSD (0.05)	0.6	0.8	0.7	0.6	0.8	0.8	0.8	0.9	0.5
CV (%)	6.7	8.4	7.5	6.7	7.6	8.2	8.3	8.7	5.4

¹9 = ideal 1 lb N/1000 ft² applied / growing month

Table 5. Mean turf performance ratings for entries in a bermudagrass turf trial seeded summer of 2018 near Rolesville, NC and maintained at a 0.5" mowing height.

ENTRY	LEAF SPOT 09 AUG 18	SPRING GREEN-UP 26 MAR 20	2018	2019	2020	MEAN
Princess 77	6.7 ¹	2.0 ²	7.0 ³	7.3	7.2	7.2
Sun Queen	7.3	6.7	7.2	6.9	6.7	6.9
Riviera	8.7	6.7	6.2	6.8	6.6	6.5
Palmilla	7.0	6.3	6.6	6.0	6.0	6.2
Arden 15	5.0	6.0	5.8	6.0	5.7	5.8
Gold Glove	4.0	5.3	5.2	5.3	5.5	5.3
North Shore SLT	4.7	6.0	5.0	4.8	4.9	4.9
Chilly Verde	3.7	5.7	4.5	4.3	4.6	4.5
Transcontinental	4.7	6.3	3.6	4.4	4.2	4.1
Maya	2.7	5.7	4.0	3.7	4.1	3.9
LSD (0.05)	1.1	1.1	0.8	0.8	0.7	0.7
CV (%)	11.1	12.2	8.8	8.0	7.8	6.9

¹9 = no disease; ²9 = 100% green; ³9 = ideal

4 lb N/1000 ft² applied in 2020; irrigated to prevent drought stress

Table 2. 2020 mean spring green-up and turf quality ratings for entries in a bermudagrass turf trial seeded spring of 2019 near Rolesville, NC and maintained at a 0.5" mowing height.

ENTRY	SPRING GREEN-UP 26 MARCH	TURF QUALITY MEAN
Riviera	6.7 ¹	6.7 ²
Palmilla	6.6	6.3
Sun Queen	5.7	6.1
Arden 15	6.6	5.4
North Shore SLT	5.0	4.9
Gold Glove	2.7	4.7
Transcontinental	5.0	3.8
Chilly Verde	2.0	3.6
Maya	2.0	3.1
LSD (0.05)	1.2	0.6
CV (%)	16.0	8.0

¹9 = 100% green; ²9 = ideal

4 lb N/1000 ft² applied in 2020; irrigated to prevent drought stress

Table 6. 2016 mean spring green-up and leaf texture ratings for bermudagrass cultivars seeded summer of 2014 at Mississippi State University and maintained at a 0.5" mowing height.

ENTRY	SPRING GREEN-UP	LEAF TEXTURE
Palmilla	5.0¹	6.0²
Sun Queen	5.0	6.0
Riviera	6.0	6.0
Princess 77	3.7	6.0
Jubilee	5.3	5.7
Chilly Verde	4.0	5.3
North Shore SLT	4.0	5.3
NuMex Sahara	4.3	5.0
Casino Royale	4.0	5.0
Transcontinental	4.0	5.0
Yukon	4.0	4.7
LSD (0.05)	0.5	0.7
CV (%)	6.0	7.3

¹9 = earliest green-up; ²9 = finest texture

1 lb N/1000 ft² applied / growing month

Table 3. 2018 mean turf quality ratings for entries in a bermudagrass turf trial seeded summer of 2012 near Rolesville, NC and maintained at a 0.5" mowing height.

ENTRY	MEAN
Riviera	7.8 ¹
Princess 77	7.8
Palmilla	6.7
Yukon	6.6
Transcontinental SMG	6.3
North Shore SLT	6.1
Savannah II	6.1
Highlander	5.8
Gold Glove	5.5
Transcontinental	5.4
Sunbird	5.3
Sundevil II	5.0
NuMex Sahara	4.9
Sonesta	4.6
LSD (0.05)	0.9
CV (%)	8.9

¹9 = ideal

Table 7. 2014 mean color ratings for entries in a bermudagrass turf trial seeded 16 June 2014 at Mississippi State University and maintained at a 0.5" mowing height.

ENTRY	12 Sept
Sun Queen	7.0 ¹
Yukon	7.0
Palmilla	6.7
Riviera	6.7
Jubilee	6.7
Princess 77	6.7
Chilly Verde	6.3
NuMex Sahara	6.3
Casino Royale	6.3
North Shore SLT	6.0
Transcontinental	6.0
LSD (0.05)	NS
CV (%)	6.4

¹9 = dark green

1 lb N/1000 ft² applied; irrigated to prevent drought stress

Table 8. 2016 mean shoot, rhizome, and root densities for bermudagrass cultivars seeded summer of 2014 at Mississippi State University and evaluated on 21 November 2016.

ENTRY	Shoot Density ^a mg / cm ³	Root Density ^c mg / cm ³	Root : Shoot ratio ^d	Rhizome Density ^b mg / cm ³
Riviera	89.4	2.6	0.14	16.9
Jubilee	84.3	2.0	0.12	14.4
Palmilla	84.1	3.6	0.22	13.3
Sun Queen	76.1	3.2	0.20	11.7
Casino Royale	70.1	2.4	0.17	10.8
Transcontinental	96.7	2.1	0.12	10.5
Chilly Verde	73.1	2.8	0.20	9.6
Yukon	73.8	2.5	0.18	9.2
NuMex Sahara	90.6	2.1	0.12	8.6
North Shore SLT	67.5	2.9	0.21	8.3
Princess 77	84.8	2.7	0.15	7.4
CV (%)	20.6	46.1	51.2	31.1
LSD (0.05)	NS	NS	NS	NS

^aTotal clippings removed from three 5.6 cm-diameter plug samples per plot. Dormant bermudagrass had been maintained at 0.5".

^bRhizomes removed from three 5.6 cm-diameter x 6.2 cm-depth plug samples per plot.

^cRoots removed from three 5.6 cm-diameter x 6.2 cm-depth plug samples per plot.

^dRoot weight divided by shoot weight.

1 lb N/1000 ft² applied / growing month



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