

## **Evaluation of national warm-season trials: bermudagrass, zoysiagrass, and St. Augustinegrass**

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Warm-season grass evaluation consists of several NTEP trials which include eleven zoysiagrass cultivars (1 seeded and 10 vegetative), thirty-three bermudagrass cultivars (27 seeded and 6 vegetative) and six St. Augustinegrasses. These grasses were fully grown-in in 2008 and were monitored for establishment, color, texture, fall color, spring green-up, disease incidence, shear strength, and wear tolerance.

Smaller trials were initiated to evaluate three seashore paspalum cultivars and moderate blocks of two new centipedegrasses were plugged in fall 2008. Portions of the centipedegrass block did not survive the winter due to the late planting. 'Santee' is planted on the west side of plot and 'Covington' is on the east side of the plot.

Data for the Zoysiagrass, St. Augustinegrass, and Bermudagrass follows. Note that highest performing group for each data column has been highlighted, and the highest two performing groups for the bermudagrass.

North Carolina State University  
2007 NTEP Zoysiagrass Trial

Entry #	Entry Name	Average 2008 Turf Quality	Average 2009 Turf Quality	Average 07-09 Genetic Color	Average 07-09 Leaf Texture	Average 08-09 Dollar Spot	2009 Summer Density	2009 Seeheads
1	Zenith	5.6 bc	6.0 b-e	6.0 c	5.5 g	9.0 a	6.3 a	6.7 b
2	Meyer	6.2 b	6.8 bc	7.1 b	6.5 e	8.8 a	6.7 a	6.0 c
3	Zorro	6.9 a	6.9 b	5.2 e	8.0 c	6.7 cde	6.7 a	9.0 a
4	DALZ 0501	7.5 a	5.8 c-f	6.4 c	8.3 ab	7.5 bc	6.7 a	9.0 a
5	DALZ 0701	7.1 a	5.4 def	5.3 de	8.1 bc	5.2 f	5.7 a	9.0 a
6	DALZ 0702	7.4 a	6.3 bcd	6.1 c	8.1 bc	5.7 ef	6.3 a	9.0 a
7	Shadowturf	7.4 a	5.2 ef	6.0 c	8.4 a	6.8 cd	5.7 a	9.0 a
8	LIF	7.4 a	4.9 f	5.9 cd	8.4 a	6.3 de	5.7 a	9.0 a
9	29-2	5.0 c	6.1 b-e	7.2 b	5.8 f	8.8 a	5.7 a	4.3 d
10	240	5.1 c	6.0 b-e	7.3 b	5.8 f	9.0 a	5.7 a	3.7 e
11	380-1	7.1 a	8.2 a	8.2 a	7.4 d	8.5 ab	7.3 a	9.0 a
LSD (P=.05)		0.64	0.99	0.65	0.31	1.05	1.73	0.50
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.481	0.0001

Entry 4 – 6: Texas A&M entry; 7: Ivey Gardens entry; 8 – 11: Bladerunner Farms entry

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2007 NTEP St. Augustine Trial

Entry #	Entry Name	Average 08 Turf Quality	Average 09 Turf Quality	Avg 07-09 Genetic Color	Avg 07-09 Leaf Texture	2008 Summer Density	2009 Summer Density	2008 Winter survival	2009 Winter survival
1	Floritam	3.2 d	2.3 c	6.8 ab	4.1 e	2.7 d	4.3 c	6.7 c	10.0 c
2	Raleigh	5.2 c	5.0 b	6.0 bc	6.6 b	4.7 c	6.3 b	66.7 ab	81.7 a
3	Mercedes	7.0 a	6.7 a	5.9 bc	7.3 a	7.3 a	8.0 a	80.0 a	96.7 a
4	DALSA 0406	6.4 ab	3.5 c	6.6 ab	5.9 c	6.3 ab	3.3 c	53.3 b	26.7 b
5	DALSA 0602	5.5 bc	5.1 b	5.0 c	4.8 d	5.3 bc	7.0 ab	53.3 b	88.3 a
6	NUF-76	6.9 a	6.0 ab	7.2 a	7.8 a	7.3 a	7.0 ab	60.0 b	81.7 a
LSD (P=.05)		1.00	1.37	1.06	0.59	1.44	1.59	13.99	16.52
Tmt Prob(F)		0.0001	0.0004	0.0113	0.0001	0.0002	0.0005	0.0001	0.0001

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2007 NTEP Bermudagrass Trial**

Entry #	Entry Name	Average 2008 Turf Quality	Average 2009 Turf Quality	Average 2007-09 Genetic Color	Average 2007-09 Leaf Texture rating	Average 2008-09 Summer Density	Average 2007-08 Seedhead rating
1	Riviera	6.8 def	5.7 b-h	5.8 h-k	6.5 e-h	7.0 cde	7.3 d
2	Princess 77	6.1 f-k	6.5 bc	6.7 def	7.3 cd	6.7 def	5.2 hi
3	Numex-Sahara	5.3 kl	3.8 l	5.0 l	5.4 l	4.8 j	6.2 fg
4	SWI-1070	6.4 fgh	5.5 c-i	6.2 f-i	6.7 ef	6.3 d-h	6.6 ef
5	SWI-1081	5.4 jkl	4.9 f-k	6.1 f-i	6.2 hij	5.8 f-i	4.6 ijk
6	SWI-1083	5.6 g-l	5.8 b-g	6.2 e-i	6.6 e-h	6.5 d-g	5.1 hi
7	SWI-1113	6.8 def	6.3 bcd	6.9 cd	7.2 cd	6.7 def	6.2 fg
8	SWI-1117	5.2 l	4.5 i-l	5.4 jkl	6.2 hij	6.0 f-i	5.1 hi
9	SWI-1122	6.4 fgh	4.9 f-k	5.7 ijk	5.9 ijk	6.2 e-i	5.7 gh
10	Midlawn*	6.8 def	6.6 b	6.6 d-g	7.6 c	7.7 bc	8.2 abc
11	Tifway*	8.4 ab	8.6 a	7.7 b	8.4 ab	8.8 a	8.1 bc
12	Premier*	7.8 bc	8.6 a	7.9 ab	8.6 ab	8.5 ab	8.4 ab
13	SWI-1057	6.0 f-k	6.1 b-e	6.8 de	6.5 e-h	6.0 f-i	5.0 hij
14	BAR 7CD5	5.1 l	4.7 h-l	6.6 d-g	5.4 l	5.3 ij	6.4 ef
15	PST-R6FLT	6.0 f-k	6.4 bc	6.2 f-i	6.7 ef	7.2 cd	3.1 l
16	Sunspport	5.7 h-l	4.8 g-l	5.4 jkl	5.7 kl	5.8 f-i	4.3 jk
17	Patriot*	7.6 bcd	8.5 a	8.5 a	8.2 b	8.5 ab	7.7 cd
18	OKC 1119*	8.7 a	8.8 a	7.6 b	8.6 ab	8.8 a	8.9 a
19	OKC 1134*	8.1 abc	8.5 a	7.5 bc	8.1 b	9.0 a	8.8 ab
20	RAD-CD1	6.2 f-j	5.2 e-j	5.9 h-k	6.2 g-j	6.3 d-h	6.4 ef
21	OKS 2004-2	6.6 efg	5.3 d-j	6.2 e-i	6.9 de	6.2 e-i	7.1 de
22	PSG 91215	5.4 jkl	4.3 jkl	5.8 h-k	5.9 ijk	5.7 g-j	5.7 gh
23	PSG 94524	5.6 h-l	4.1 kl	5.3 kl	5.8 jkl	5.7 g-j	5.7 gh
24	IS-01-201	6.2 f-j	5.9 b-f	6.0 g-j	6.7 efg	6.7 def	5.7 gh
25	IS-CD10	6.3 f-i	5.6 b-h	5.8 h-k	6.3 f-i	6.5 d-g	5.7 gh
26	J-720	6.1 f-k	5.9 b-f	6.2 f-i	6.6 e-h	6.5 d-g	6.0 fg
27	Yukon	5.9 g-l	6.2 b-e	6.8 de	6.7 ef	6.0 f-i	7.1 de
28	Veracruz	6.4 fgh	5.7 b-h	6.0 g-j	6.7 efg	6.7 def	6.1 fg
29	PSG 9BAN	5.8 g-l	4.8 g-l	6.1 f-i	6.3 f-j	6.2 e-i	4.9 ij
30	PSG PROK	5.5 i-l	4.2 kl	5.7 ijk	6.0 ijk	5.5 hij	4.0 k
31	PSG 9Y2OK	6.4 fgh	5.9 b-f	6.4 d-h	6.3 f-j	6.3 d-h	5.7 gh
32	Tifton 11*	7.4 cde	8.1 a	7.7 b	7.7 c	7.7 bc	8.7 ab
33	CD-3*	4.1 m	8.1 a	8.3 a	8.8 a	6.3 d-h	8.9 a
LSD (P=.05)		0.82	1.03	0.64	0.46	0.89	0.77

Entry 4 – 9, 13: Seed West; 14, 33: Barenbrug; 15: Pure Seed Testing; 16: Lesco; 17 – 19, 21: OK Ag; 20: Desert Sun Marketing; 22 - 23: Seed Research/Pickseed; 24 – 25: DLF International; 26: Jacklin/Simplot; 27 – 31 Seed Research of Oregon; 32: Univ of GA