



Turfgrass Selection

James A. McAfee, Ph.D.

Associate Professor and Extension Turfgrass Specialist

Texas AgriLife Extension Service

I. Bermudagrasses

A. Seeded bermudagrasses:

1. Arizona common

- * standard to compare new varieties to
- * numerous types of Arizona common

2. Yukon

- * OSU turfgrass breeding program development
- * improved cold tolerance
- * resistance to spring dead spot
- * slow to establish

3. Riviera

- * OSU turfgrass breeding program
- * improved cold tolerance
- * good spring dead spot resistance
- * slow to establish

4. Sultan

- * ranked medium to high in most turfgrass trials
- * good shoot density
- * good green color
- * lower growing than most common types

5. Other new seeded bermudagrasses:

- Southern Star
- Primavera
- Mirage
- NuMex Sahara
- Triangle (blend of Mohawk, Sultan, Sydney)

B. Hybrid/Vegetative bermudagrasses:

1. Tifway 419

- * hybrid – natural selection
- * standard hybrid in the industry for golf courses and sports fields
- * contaminated sod fields can be a problem

2. TifSport

- * gamma-irradiated mutant of Midiron
- * similar to Tifway
- * improved cold tolerance
- * slow recovery from wear reported?

3. GN-1

- * hybrid bermudagrass
- * developed in Australia
- * rapid establishment

- * rapid recovery from wear

- * excess stolon growth
- * thatch can be a problem

4. Celebration

- * common bermudagrass selection
- * rapid establishment
- * rapid stolon growth
- * not a lot of data to support claims, is in NTEP trials at this time
- * tends to thatch

5. Baby

- * rapid establishment
- * improved cold tolerance
- * poor color tolerance in our alkaline soils

6. Patriot

- * hybrid, from OSU turfgrass breeding program
- * improved cold tolerance
- * good, rapid establishment
- * improved resistance to spring dead spot

7. Quickstand

- * common
- * excellent cold tolerance
- * medium leaf texture, not as fine as Tifway and TifSport

8. Premier

- * new hybrid release from Texas A&M University program

- * fine textured
- * dark green color

9. Princess-77

- * F-1 Hybrid
- * ranked very high in national turf trials
- * fine textured, dark green
- * slow germination
- * good drought tolerance

II. St. Augustinegrasses

1. Texas Common

- * still sold by sod growers
- * susceptible to chinch bugs, brown patch and SADV
- * medium texture, medium green color
- * fair cold tolerance

2. Raleigh

- * medium texture, good green color
- * improved cold tolerance
- * susceptible to brown patch, chinch bugs and gray leaf spot

- * resistant to SAD virus

- * large percent of sod sold in Texas is Raleigh

3. Floratam

- * coarse textured, rapidly growing grass
- * resistance to SADV virus and chinch bugs in Texas
- * less susceptible to brown patch and gray leaf spot
- * good to excellent drought tolerance
- * very poor cold tolerance

4. Delmar

- * good cold tolerance
- * improved shade tolerance
- * more susceptible to brown patch
- * susceptible to chinch bugs
- * resistance to SADV virus

5. Seville

- * semi-dwarf type St. Augustinegrass
- * poor cold tolerance
- * good shade tolerance
- * susceptible to brown patch, chinch bugs and gray leaf spot

- * resistant to SAD virus

6. Palmetto

- * good, green color, medium texture
- * good cold tolerance, similar to Raleigh
- * improved drought tolerance?
- * improved shade and drought tolerance?
- * resistance or susceptibility to SADV virus still being debated

7. AmeriShade

- * low growing variety
- * good to excellent shade tolerance
- * good green color
- * due to dwarf growth habit, thatch can be a problem
- * cold tolerance similar to Raleigh
- * resistant to SAD virus
- * susceptible to chinch bugs

III. Zoysiagrasses

A. Zoysia japonica

1. Palisade

- * medium texture, high density
- * low irrigation requirements
- * susceptible to brown patch
- * ranked high in several turfgrass trials in Texas

2. Crowne

- * improved drought tolerance
- * coarse textured, good density
- * improved cold tolerance
- * good, low maintenance grass

3. El Toro

- * medium to coarse texture
- * good cold and shade tolerance

- * susceptible to brown patch
- * rated medium to high in Texas varietal trials
- * fair to good drought tolerance

4. JaMur

- * medium texture, good green color
- * good shade tolerance
- * rated high in Texas trials for zoysiagrasses
- * susceptible to brown patch
- * good drought tolerance

5. Zenith

- * seeded type zoysiagrass
- * similar to Meyers in texture and color
- * good shade and cold tolerance
- * recommended seeding rate is 1-3 lbs./1,000 sq. ft.

B. Zoysia matrella

1. Zeon?

- * fine to medium texture
- * good dark green color
- * fair to good shade tolerance
- * produces less thatch than Emerald
- * good salt tolerance
- * good to excellent drought tolerance

2. Cavalier

- * fine texture, high density
- * excellent shade tolerance
- * good salt tolerance
- * moderate to high susceptibility to brown patch
- * resistance to sod webworms, fall armyworms and tawny mole crickets
- * susceptible to zoysiagrass mite

3. Diamond

- * high salt and shade tolerance
- * tolerates very close mowing, down to .125 inches
- * rapid recovery from injury
- * fair cold tolerance

4. Royal

- * fine textured, high rhizome development
- * excellent salt and shade tolerance
- * good cold tolerance
- * excellent tolerance to zoysiagrass mite

5. Zorro

- * fine textured, good green color
- * excellent shade tolerance
- * rapid recovery from injury

6. Emerald

- * actually a fine textured hybrid (*Z. japonica* X *Z. tenuifolia*)
- * tends to produce a lot of thatch
- * very fine textured
- * excellent shade and salt tolerance
- * fair to good cold tolerance

7. Shadowgrass

- * marketed by Ivy Gardens in Lubbock, Texas
- * fine textured zoysiagrass
- * excellent shade tolerance

IV. Centipedegrasses

1. Common (also sold as Centiseed)
 - * sold as seed or vegetatively (sod).
2. Tifblair
 - * developed by USDA program in Georgia
 - * improved cold tolerance
 - * tolerance to low soil ph
 - * sold as seed or sod
3. Oaklawn
 - * developed by OSU breeding program
 - * sold as sod only
 - * improved cold tolerance
4. TennTurf
 - * best cold tolerance for centipedegrass varieties
 - * sold as sod only
5. Centennial
 - * improved cold tolerance
 - * tolerant to alkaline soils
 - * sold as sod only

V. Buffalograsses

- A. Vegetative only
 1. Nebraska 609
 - * released through University of Nebraska
 - * female plant only
 - * fine textured, good green color
 - * excellent drought and heat tolerance
 - * good to excellent heat tolerance
 2. Prairie
 - * released through Texas A&M University
 - * female plant only
 - * fine texture, good color
 - * excellent heat and drought tolerance
 - * good to excellent cold tolerance
 3. Density
 - * new release from BladeRunner farms
 - * very dense stand for buffalograsses
 4. Tech Turf
 - * new release from Texas Tech program
 - * sold as plugs only
 - * formally sold as Turffalo
- B. Seeded varieties
 1. Topgun
 - * good color, density
 - * one of first improved seeded types
 - * rated high in Texas trials
 2. Plains
 - * good color
 - * good spring green up
 - * grows slightly taller than Topgun
 3. Texoka
 - * thinner stand than most seeded types
 - * excellent for planting with wildflowers
 4. other seeded varieties
 - a. Bison

- b. Cody
- c. Tatanka
- d. Sharps Improve
- e. Imperial blend (Bison, Cody, Bowie)

VI. Seashore paspalums

1. SeaIsle 1
 - * released through University of Georgia
 - * excellent salt tolerance
 - * good low light tolerance
 - * poor shade (tree) tolerance
 - * excellent green color, better than bermudagrass
 - * good drought tolerance, when maintained properly
 - * seedhead production can be a problem
 - * slow to recover from scalping and drought stress
2. SeaIsle 2000
 - * released through University of Georgia
 - * very similar characteristics to SeaIsle 1
3. SeaDwarf
 - * dwarf type seashore paspalum
 - * excellent salt tolerance
 - * improved winter color
 - * good traffic tolerance
4. other seashore paspalums
 - a. SeaGreen
 - b. SeaWay
 - c. Salam
 - d. Adalayd/Excalibre

VII. Turf Type Tall Fescues

1. Arid
2. Falcon
3. Jaguar 3
4. Mustang
5. Apache
6. Rebel II
7. Titan
8. Hounddog
9. Galway
10. Bonanza
11. Tomahawk
12. Virtue
13. Southern Choice

VIII. Hybrid Bluegrasses

1. Reville
2. Thermal blue

Revised 11/19/08