

Overseeding

- Advantages
 - Appearance
 - Reduced wear
- Disadvantages
 - Transitioning
 - Injury to bermudagrass

Turfgrass species

- Creeping bentgrass
- Perennial ryegrass
- *Poa trivialis*

Creeping bentgrass

- Advantages
 - Putting quality
- Disadvantages
 - Slow to transition

Perennial ryegrass

- Advantages
 - New ones transition better
- Disadvantage
 - Older cultivars have too much heat tolerance



Transitional Perennial Ryegrass Cultivars

- Trans Eze
- Quick Trans

Poa trivialis

- Advantages
 - Transition well
- Disadvantages
 - Quality & color

Transitioning-Cultural Spring

- High Nitrogen fertility
- Reduces irrigation
- Foliar feed bermudagrass after it breaks dormancy

Transitioning-Chemical

• Sulfonylurea Name	Trade
— Foramsulfuron	Revolver
Trifloxysulfuron	Monument
Rimsulfuron	Transit
Primisulfuron	Beacon

Transitional Chimerical Before Overseeding

- Treat 3 weeks before overseeding
- Very Soluble
- Water lightly 4 or 5 time a day for 2 days
- Consider Closing the course for a couple of days to avoid tracking on to greens



Ultradwarfs

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Physical characteristics and genetic origins of selected ultradwarf varieties

Variety	Genetic Origin	Vertical	Lateral	Multiple of	Percent More
			Growth	Growth	Thatch
			Rate	Rate	Accumulation
					Shoots per
					Unit Area
Champion	Selection from Tifdwarf green	Slower	Faster	11.7X	100%
Floradwarf	Selection from Tifgreen	Slower	Similar	7.5X	50%
Mini-Verde	Selection from Tifdwarf	Slower	Faster	5X	100%
MS-Supreme	Selection from Tifgreen green	Slower	Faster	?	?
TifEagle	Gamma-induced mutant of TifwayII	Slower	Similar	7.7X	50%

Ultradwarfs

- Advantages

- Maintain density at low mowing heights (.09-.15 inches)
- Faster surfaces
- Putts more like creeping bentgrass

Ultradwarfs

- Disadvantages
 - More thatch buildup
 - More maintenance
 - 2 sets of mowers
 - constant back lapping and sharpening
 - replacing bed knives every 2-3 weeks
 - Not shade tolerant
 - Lack winter hardiness
 - Shorter root system



Ultradwarfs

- Overseeding
 - With *Poa trivialis*
 - Many prefer not to overseed
 - raise 5/32 to 3/16 to avoid excessive wear

Ultradwarfs

- Management - Chemical
 - Wetting agents to prevent
 - surface from sealing up
 - local dry spots
 - Fungicides - preventive
 - Fertility - require from 1/4 to 1/2 less nitrogen

Ultradwarfs

- Diseases
 - Bermudagrass decline
 - SDS
 - Dollar spot
 - BDS

Ultradwarfs

- Management - Mechanical
 - Light dusting of sand every 7 days
 - Brushing instead of vertical mowing

**Ultradwarf
Bermudagrasses**

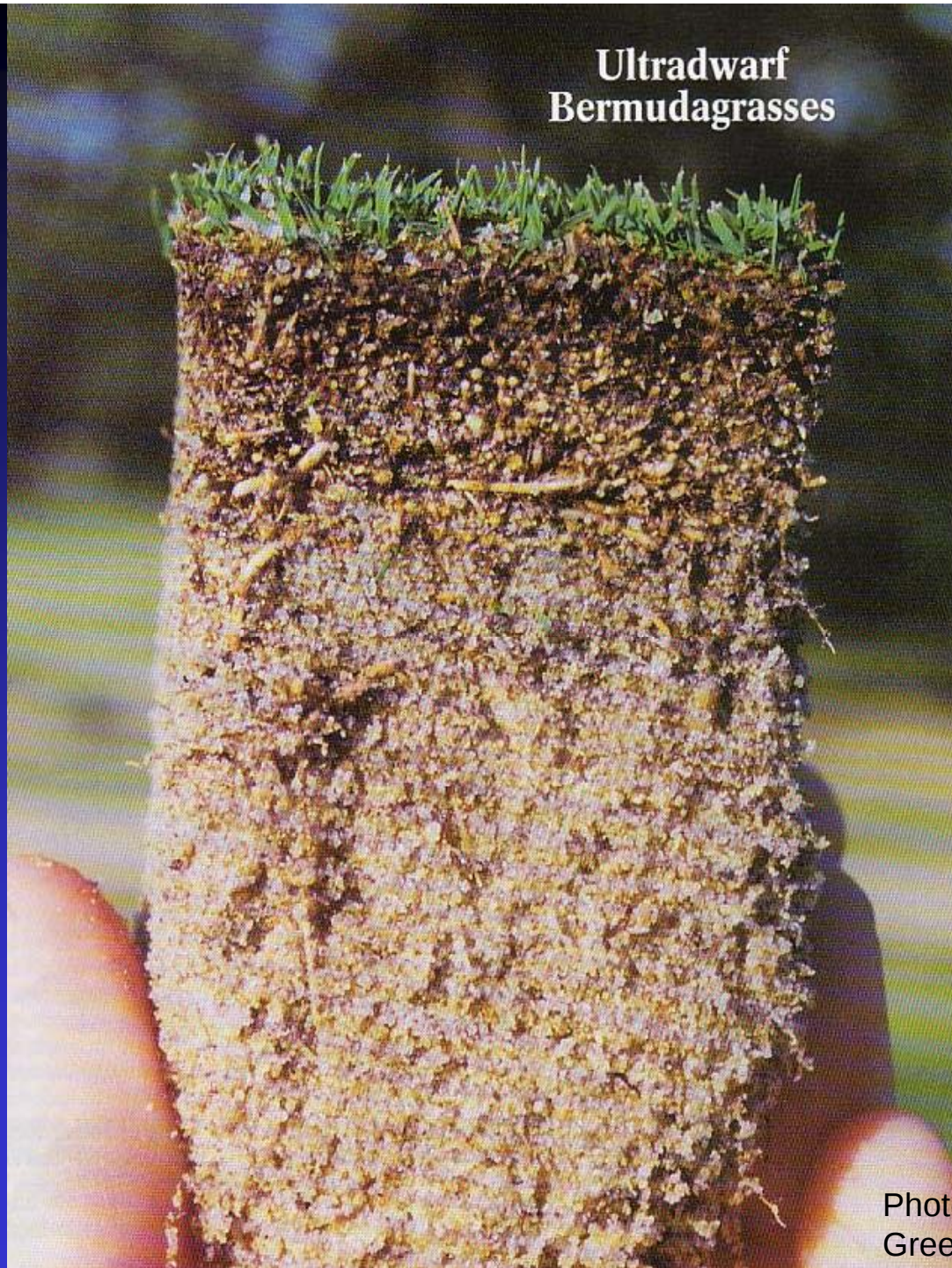


Photo courtesy USGA
Green Section Record,



Fall 2001



Spring 2002



Fall 2002



Fall 2003

Secondary
Symptoms
(August 2003)



Primary
Problem
(May 2003)



Greens with high organic matter struggle, especially during rainy summer months.







