Bermudagrass Control in Zoysiagrass

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Objectives

Determine if bermudagrass can be selectively removed from zoysiagrass
Materials and Methods

Common bermudagrass (*Cynodon dactylon*) is a natural contaminant in ‘El Toro’ or ‘Meyer’ zoysiagrass (*Zoysia japonica*) grown for sod.
Materials and Methods

Treatments were initiated in June, 2003 and repeated every 4 or 8 wks through September (2 or 4 applications)
Materials and Methods

Treatments included:

- Fusilade II (3.5 or 4 oz) repeated every 4 wks
- Fusilade II (3.5 or 4 oz) repeated every 8 wks
- Acclaim Extra (AE) (1.25 pt) repeated every 4 wks
- Acclaim Extra (AE) (1.25 pt) repeated every 8 wks
- Fusilade II + Turflon Ester (TE) (3.5 or 4 oz + 1 qt) repeated every 4 wks
- Fusilade II + Turflon Ester (TE) (3.5 or 4 oz + 1 qt) repeated every 8 wks
- Acclaim Extra (AE) + Turflon Ester (TE) (1.25 pt + 1 qt) repeated every 4 wks
- Acclaim Extra (AE) + Turflon Ester (TE) (1.25 pt + 1 qt) repeated every 8 wks
‘Tifway 419’ Control in ‘El Toro’ Zoysiagrass (12 WAIT)

Rates are product / acre, data collected 9-29-03, Sandhills Research Station
‘Tifway 419’ Control in ‘El Toro’ Zoysiagrass (12 WAIT)

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‘El Toro’ Zoysiagrass Phytotoxicity (2 WAIT)

Rates are product / acre, data collected 7-8-03, Sandhills Research Station
‘El Toro’ Zoysiagrass Phytotoxicity (2 WAIT)

Rates are product / acre, data collected 7-8-03, Sandhills Research Station
Fusilade II (4oz)
Fusilade II (4 oz) + Turflon Ester (1 qt)
Acclaim Extra (1.25 pt) + Turflon Ester (1 qt)
Common Bermuda Control in ‘Meyer’ Zoysiagrass (12 WAIT)

Rates are product / acre, data collected 10-2-03, Winslow Turf Farms
Common Bermuda Control in ‘Meyer’ Zoysiagrass (12 WAIT)

Rates are product / acre, data collected 10-2-03, Winslow Turf Farms
‘Meyer’ Zoysiagrass Phytotoxicity (2 WAIT)

Rates are product / acre, data collected 6-30-03, Winslow Turf Farms

Legend:
- Fus II 3.5 oz 4wks
- Fus II 3.5 oz 8 wks
- AE 1.25 pt 4 wks
- AE 1.25 pt 8 wks
- Nontreated
‘Meyer’ Zoysiagrass Phytotoxicity (2 WAIT)

Rates are product / acre, data collected 6-30-03, Winslow Turf Farms
Conclusions

‘Tifway 419’ bermudagrass

Fusilade II (4 oz) or Acclaim Extra (1.25 pt) applied every 4 wks provided only 40 – 50% bermudagrass control while each applied every 8 weeks provided no control. However, Fusilade II (4 oz) or Acclaim Extra (1.25 pt) tank-mixed with Turflon Ester (1 qt) applied every 4 wks provided 85 – 90% bermudagrass control. Further, when sequentials were applied every 8 weeks control was reduced.
Conclusions

Common bermudagrass

The following treatments provided excellent bermudagrass control:

- Fusilade II (3.5 oz) every 4 wks
- Fusilade II (3.5 oz) tank-mixed with Turflon Ester (1 qt) every 4 wks
- Acclaim Extra (1.25 pt) tank-mixed with Turflon Ester (1 qt) every 4 or 8 wks

The following treatments provided good bermudagrass control:

- Fusilade II (3.5 oz) every 8 wks
Conclusions

‘El Toro’ zoysiagrass phytotoxicity

Evaluated treatments caused minimal (<15%) phytotoxicity

‘Meyer’ zoysiagrass phytotoxicity

Evaluated treatments caused minimal (<15%) phytotoxicity with the exception of Acclaim Extra (1.25 pt) applied alone or tank-mixed with Turflon Ester (1 qt) which caused 20 – 25% phytotoxicity