



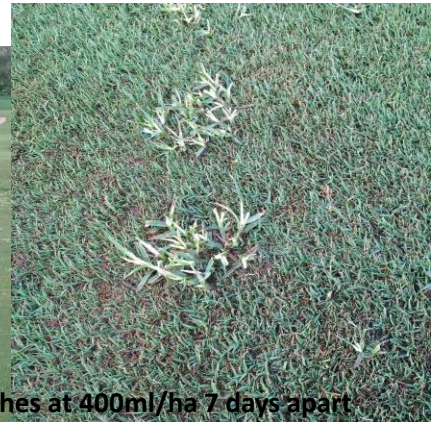
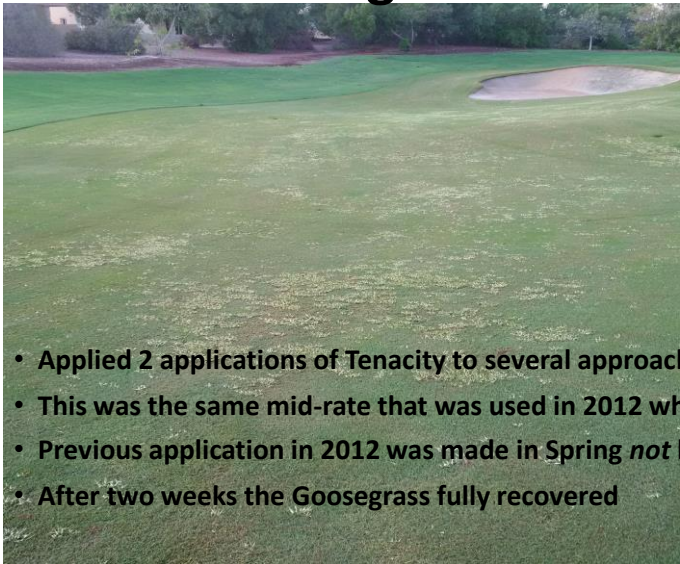
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Control of Goosegrass in Tifway 419 Bermudagrass
using Tenacity (Mesotrione)
September, 2016

The Problem

- Prolific Goosegrass encroachment throughout Earth and Fire in 2016
- Why?
 1. Overseeding has occurred since 2011 allowing weed grasses to gain a foothold in weaker transition areas.
 2. A warmer than average winter and cooler than average spring may have produced earlier germination, especially with fluctuating temperatures which Goosegrass germination thrives on.
 3. Extensive aeration activities have spread seed across playing surfaces.
 4. Lack of sufficient resources to remove physically or through use of Herbicides.

Initial Trial – August 2016



- Applied 2 applications of Tenacity to several approaches at 400ml/ha 7 days apart
- This was the same mid-rate that was used in 2012 which had good results.
- Previous application in 2012 was made in Spring *not* late summer...
- After two weeks the Goosegrass fully recovered

Herbicidal Trials – September - 2016

Trial 1

Mesotrione (Tenacity) @ 400ml/ha

Sulfentrazone (Spartan) @ 400ml/ha

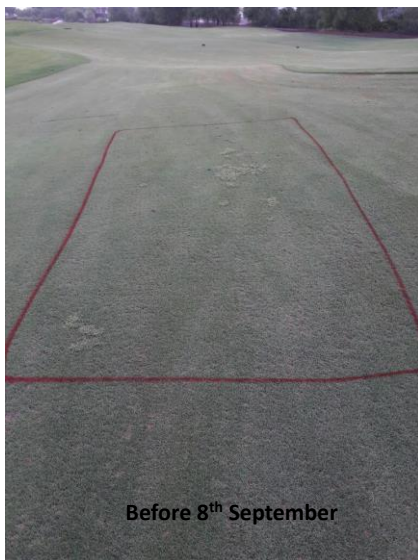
Trial 2

Mesotrione (Tenacity) @ 600ml/ha

Trial 3

Mesotrione (Tenacity) @ 400ml/ha

Trial 1 – Mesotrione and Sulfentrazone



Mesotrione @ 600ml/ha

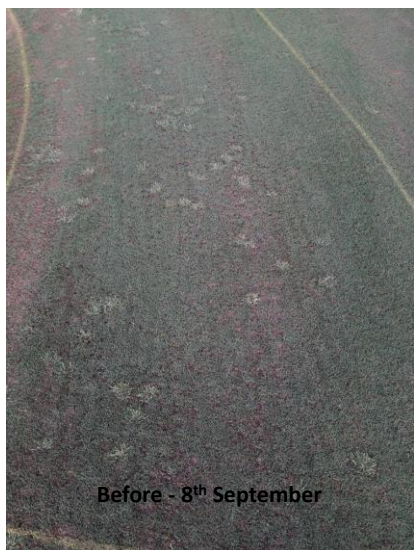


Before 8th September



After 1 week 15th September

Mesotrione @ 400ml/ha



Conclusions

- The initial Trial of 400ml was made with a ground crop sprayer 400ml Tenacity and after two applications 7 days apart was not enough to kill the goosegrass plant.
- Trials made with knap-sack sprayers resulted in operator error and plant death of both target weed and desired turfgrass in multiple trial plots.
- Trial made with knap-sack sprayer combining both Tenacity and Spartan killed the Goosegrass after 1 application without resulting in extensive turf loss.
- Further trial work will now start on applying this combination (Trial 1) through a ground crop sprayer to reduce risk of operator error.

ENDS