

After five years of
on-farm testing,
have we learned
how to manage
tropical spiderwort?



Eric P. Prostko
Extension Agronomist - Weed Science
Department of Crop & Soil Sciences
The University of Georgia

What have we done?

UGA/USDA Research Trials (since 2000)

- cotton (36)
- corn (2)
- soybeans (3)
- peanuts (10)
- fallow/post-harvest (5)
- biology (28)
- physiology (4)
- **Total (88)**

What have we learned?

- short-term fix for a long-term problem
 - current crop production systems to blame
- identified a few good herbicides
 - 2,4-D, Dual Magnum, Aim, Gramoxone
 - Will have to spend more \$\$\$\$
- control in field corn a major concern
 - Post-harvest control may be more important
- Why does it continue to get worse?
 - Lag phase
 - spread and distribution

Tropical Spiderwort Control in Peanut - 2004



Untreated



Gramoxone Max @ 5.5 ozs/A
+ Dual Magnum @ 11 ozs/A (13 DAP)
fb

Cadre @ 1.44 ozs/A +
Dual Magnum @ 11 ozs/A (28 DAP)
(83% control on August 5, 2004)

*PE-07B-04
June 23, 2004
47 DAP*

Tropical Spiderwort Control in RR Soybeans - 2005



Untreated



Sequence @ 3 pts/A
(\$16/A)
(Glyphosate + Dual Magnum)



Extreme @ 3 pts/A
(\$12/A)
(Glyphosate + Pursuit)

Tropical Spiderwort Control in Field Corn - 2005



Untreated
(166 bu/A)



Aim 2EC @ 1.5 ozs/A
Dual Magnum 7.62EC @ 1.33 pt/A
Herbimax @ 1% v/v
(168 bu/A)



Post-Harvest – Field Corn
(Our Achilles heel?)

Post-Harvest – 2005

2,4-D (1 pt/A) + Dual Magnum (12 ozs/A) + COC (1% v/v)



22 DAT



43 DAT



54 DAT

Concerns with Post-Harvest Treatments

- Not something we are used to doing
- How much time before frost?
- fall emergence/seed production
- peanut/cotton harvest
- 2 applications
- tillage/diesel fuel prices
- economic benefit
- What if we don't do it?

September 8



September 29



October 10



Summary

- chemical control options are available
- will increase productions costs
- control in corn not profitable unless planted in late-may or June?
- biggest concerns
 - Post-harvest (corn) control
 - spread and distribution

