

ROW CROP FIELD DAY

NFREC – QUINCY

WEED MANAGEMENT IN COTTON AND CORN

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2026 Season Recap

- Precipitation lower than average during fall 2025:
 - Cover crop establishment (50 lbs/A of N)
 - Winter annuals: Italian ryegrass, wild radish, wild mustard
- Spring 2026:
 - Dry before planting
 - Wet after planting
 - Short residual activity
 - Weed pressure



Farmer problem: Nutsedge Issue in Peanut



Image: Ethan Carter, UF/IFAS Extension

Field Timeline & Herbicide Use Schedule:

1. Burndown- 42 oz/acre Roundup
2. Planted May 25th- 1 qt/ac of Sonalan + 3 oz/ac of Valor
3. June 10th- Cadre application of 3.8 oz/ac (afternoon thunderstorm rolled through sometime after and brought concern of wash)
4. July 7th- Bentazon (4EC) applied at 28 oz/ac with 14 oz crop oil. Plans to do another application in 7-10 days based on label & UGA Handbook statements for yellow nutsedge control.

Start clean: burndown application



Italian ryegrass

Lolium perenne subsp. *multiflorum*



Goosegrass

Eleusine indica

Italian ryegrass control options



What herbicides should we use?

Images: UF/IFAS Extension, UGA



Palmer amaranth
Amaranthus palmeri

Tropical spiderwort
Commelina benghalensis

Sicklepod
Senna obtusifolia

Morningglory
Ipomoea spp.

Goosegrass
Eleusine indica

Nutsedge
Cyperus spp.

Summer annual
Small seeds
Indeterminate
Short to tall
Resistant

Summer annual
Large seeds, rhizomes
Indeterminate
Short, prostrate
Tolerant

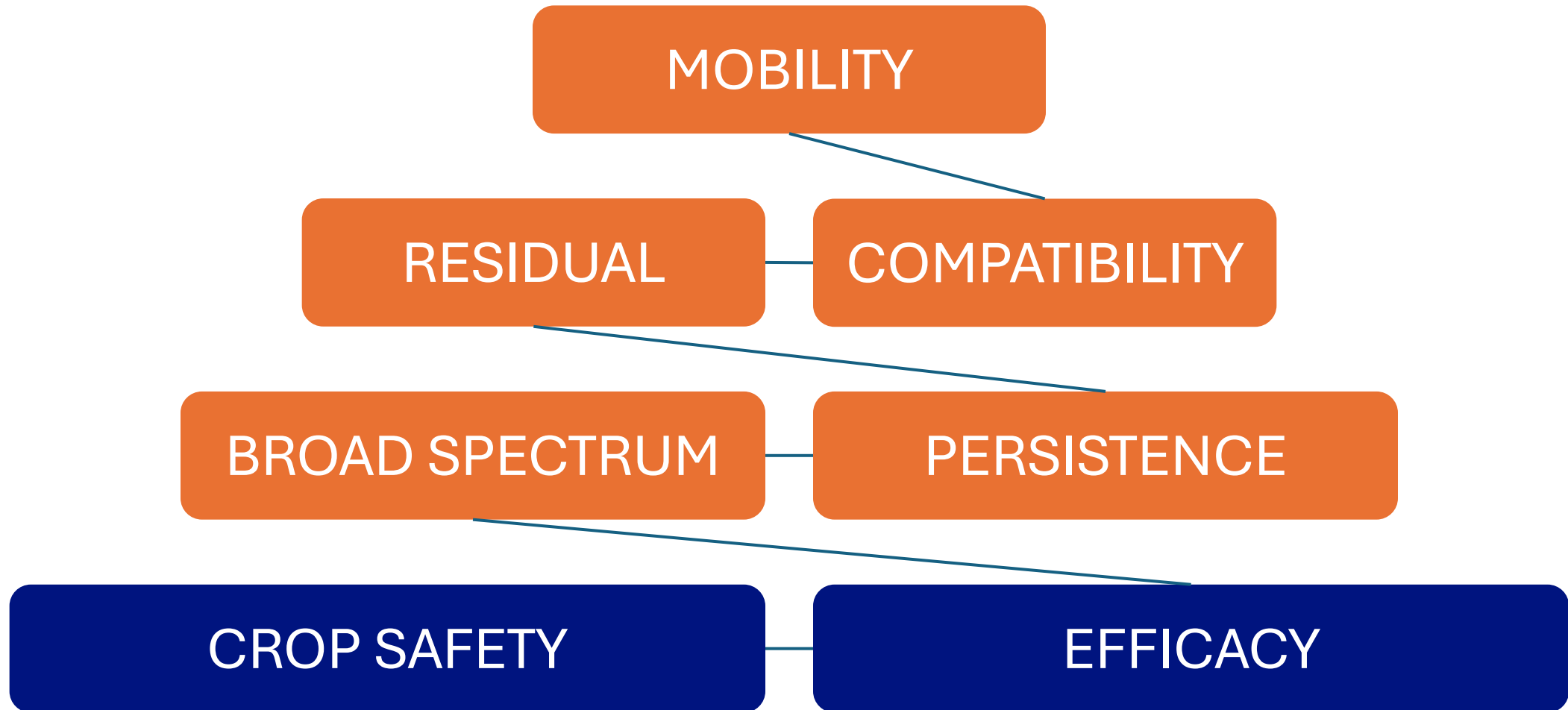
Summer annual
Large seeds
Determinate
Short
Sensitive

Summer annual
Large seeds
Indeterminate
Prostrate
Tolerant

Summer annual
Small seeds
Determinate
Prostrate
Sensitive

Perennial
Tubers
Indeterminate
Prostrate
Tolerant

What makes a successful herbicide program?



Cotton herbicides: 28 DAP (WFREC, Jay 2026)



Non-Treated Control
NTC



Warrant @ 2.5 pt/A
acetochlor (15)



Direx @ 2 pt/A
diuron (5)



Ranieri Borsari

Cotton herbicides: 28 DAP (WFREC, Jay 2026)



NTC



Valor EZ @ 1.5 fl oz/A
flumioxazin (14)



Solicam @ 1.9 lb/A
norflurazon (12)



Prowl H₂O @ 2.1 pt/A
Pendimethalin (3)



Ranieri Borsari

Cotton herbicides: 28 DAP (WFREC, Jay 2026)



NTC



Warrant
Direx



Warrant
Valor EZ



Warrant
Solicam



Ranieri Borsari

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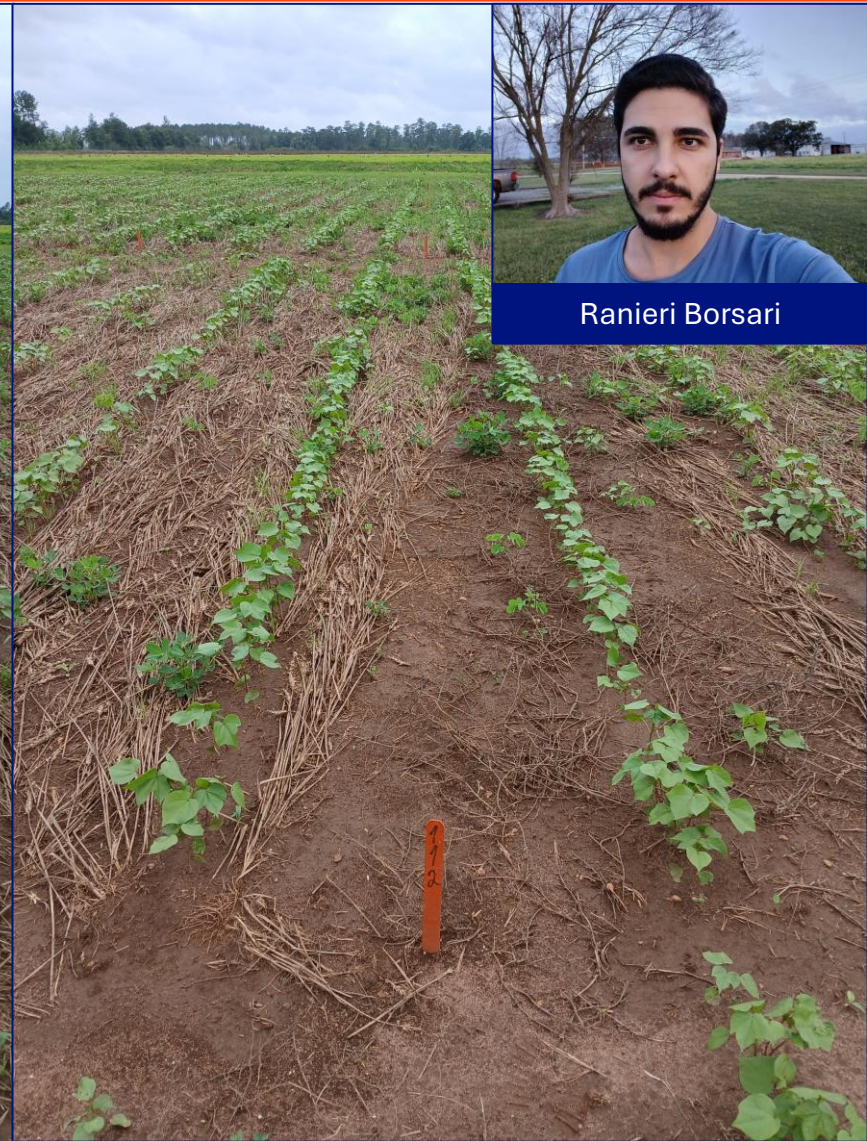
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Warrant
Prowl H₂O



Direx
Valor EZ



Direx
Prowl H₂O



Ranieri Borsari

Cotton herbicides: 28 DAP (WFREC, Jay 2026)



NTC



Direx
Prowl H₂O



Valor EZ
Solicam



Valor EZ
Prowl H₂O



Ranieri Borsari

Cotton herbicides: 28 DAP (WFREC, Jay 2026)



NTC



Valor EZ
Prowl H₂O



Solicam
Prowl H₂O



Ranieri Borsari

Chemical control in cotton

12 SOAs

BURNDOWN	PREEMERGENCE (AT PLANTING)	POSTEMERGENCE 1 (15-17 d after PRE)	POSTEMERGENCE 2 (15-17 d after POST 1, before 9-leaf cotton)
Roundup (9)*	Staple (2)	Roundup (9)	Roundup (9)
2,4-D amine (4)	Treflan (3)	Enlist (4)	Enlist (4)
Dicamba (4)	Prowl H2O (3)	XtendiMax, Engenia (4)	XtendiMax, Engenia (4)
Harmony Extra (2)	Cotoran (5)	Liberty (10)	Liberty (10)
Gramoxone (22)	Direx (5)	Envoke (2)	Envoke (2)
Direx (5)	Solicam (12)	Staple (2)	Staple (2)
	Brake (12)	Fusilade (1)	Fusilade (1)
	Reflex, Valor (14)	Poast (1)	Poast (1)
	Dual Magnum, Warrant (15)	Select (1)	Select (1)
		Dual Magnum (15)	Dual Magnum (15)

*Numbers in parenthesis indicate herbicides group



Don't mix
auxins with
FOPs, or DIMs
(graminicides)
for grass control

2,4-D, dicamba
with
Select Max, Section Three,
Fusilade, Axial, others

Italian ryegrass control options

Gramoxone + PS II herbicides for ryegrass

- Paraquat applied near sunup or sundown will not **flash burn** compared to midday application
- Paraquat or metribuzin + atrazine prior to **corn**

OR

- Paraquat + metribuzin prior to **soybean**

OR

- Paraquat + Cotoran (fluometuron), Diuron, or Caparol (prometryn) prior to **cotton**



Benefits of early ryegrass control



- Often at least 2 applications are needed for >90% control
- Benefit to cost ratio of 13:1
- Burndown at least 21 days prior to planting

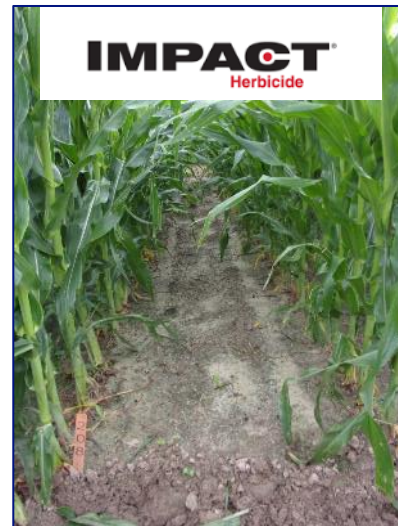
Corn herbicide treatments: PRE + POST (28 DAP)

 **Callisto**[®]



Dual II Magnum 7.62EC @ 16 oz/A
PRE
Callisto 4SC @ 3 oz/A
Prowl H₂O 3.8SC @ 32 oz/A
Induce @ 0.25% v/v
POST (28 DAP)

IMPACT[®]
Herbicide



Dual II Magnum 7.62EC @ 16 oz/A
PRE
Impact 2.8SC @ 1.25 oz/A
Prowl H₂O 3.8SC @ 32 oz/A
Induce @ 0.25% v/v
POST (28 DAP)



NTC

 **LAUDIS**[®]



Dual II Magnum 7.62EC @ 16 oz/A
PRE
Laudis 3.5SC @ 3 oz/A
Prowl H₂O 3.8SC @ 32 oz/A
Induce @ 0.25% v/v
POST (28 DAP)

SHIELDDEX[®]
400SC HERBICIDE



Dual II Magnum 7.62EC @ 16 oz/A
PRE
Shieldex 3.33SC @ 1.35 oz/A
Prowl H₂O 3.8SC @ 32 oz/A
Induce @ 0.25% v/v
POST (28 DAP)

Corn herbicide treatments: POST 20 DAT



NTC



Roundup P-Max3 5.88SL @ 27 oz/A
Liberty 2.34SL @ 27 oz/A
Aatrex 4L @ 64 oz/A
Prowl H₂O 3.8SC @ 32 oz/A
POST (24 DAP)

Corn herbicide treatments: 138 DAP



NTC



Roundup PowerMax3 5.88SL @ 30 oz/A
Surtain 1.628SC @ 11 oz/A
Aatrex 4L @ 32 oz/A
Induce @ 0.25% v/v
AMSOL @ 2.5% v/v
Applied 15 DAP



Halex GT 4.389SC @ 58 oz/A
Aatrex 4L @ 64 oz/A
Induce @ 0.25% v/v
Applied 15 DAP

Diversify management practices vs. IWM



Diversify management practices vs. IWM

Fallow



Strip-tillage



Cereal rye (60 lbs/A) + Strip tillage



- 1) Start clean
- 2) Chose +3 effective herbicides modes of action
Attention to herbicides group 9 and 2
- 3) Chose your preemergence herbicide programs strategically
- 4) Include a residual herbicide in your POST applications
14 or 12 fb 15
- 5) Follow label recommendations
Full dose with appropriate spray settings, stage, and weather conditions
- 6) Explore mechanical and cultural practices
reduced tillage and cover crop

Got resistance? Let us know



Acknowledgements



Thank you!



Questions?

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