

The background of the slide features a close-up photograph of corn cobs and their husks. One cob in the foreground is yellow and partially husked, while a larger, reddish-purple cob is visible behind it. The leaves are green and yellow, creating a textured, agricultural backdrop.

Weed Control in Field Corn and Forage Sorghum

June 20, 2019

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UNIVERSITY OF
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College of Agricultural &
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Field Corn Weed Control

Questions for you?

- ❑ What technologies have you planted?
 - ❑ *RR, LL, Conventional, Enlist (2,4-D)?*
- ❑ Have you used Counter INFR?
- ❑ Is atrazine still working for you?
- ❑ What will be planted after the field corn?



Pigweed Should Not Be a Problem!!!!

- ❑ moisture activated residual?
- ❑ atrazine resistance
- ❑ timing/coverage
 - ❑ *weeds too big*
 - ❑ *corn too big*
- ❑ environmental
 - ❑ *hot and dry #1 enemy*
 - POST's*



A general plan of attack?

- ❑ MUST START CLEAN!
- ❑ Use 1 qt/A of Atrazine 4L PRE (or *Dual II Magnum*, or *Warrant*, or *Outlook*)
- ❑ Follow up with a timely POST program that includes an additional 1.5 qt/A of Atrazine 4L
- ❑ Lots of options depending upon how you answered previous questions?



Starting Clean

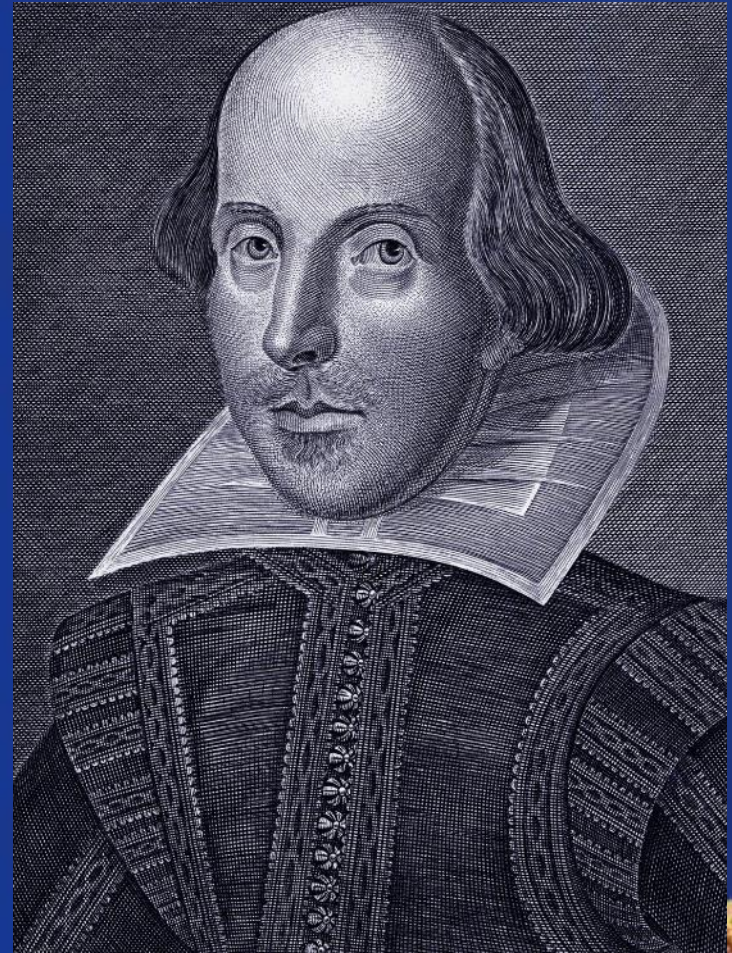


- ❑ If you are getting ready to plant and get to the field and have pigweed > 6" tall

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- ❑ **Park the sprayer**
- ❑ **Go get your mower, disk, and/or bottom plow**

To PRE or Not to PRE?



Dual, Outlook, Warrant, Zidua????



Zidua[®] SC
Herbicide

Group 15 Herbicide

Field Corn Weed Control – 2019

Roundup + Atrazine + Prowl H₂O (~\$18/A)



NTC



Roundup PowerMax @ 32 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Applied 23 DAP (V5/8" tall)

Field Corn Weed Control – 2019

Roundup + Laudis + Atrazine (~\$18/A)



NTC



Roundup PowerMax @ 32 oz/A
Laudis @ 3 oz/A
Atrazine @ 64 oz/A
Applied 23 DAP (V5/8" tall)

Field Corn Weed Control – 2019

Halex GT + Atrazine + NIS (~\$24/A)



NTC



Halex GT @ 58 oz/A
Atrazine @ 64 oz/A
NIS @ 0.25% v/v
Applied 23 DAP (V5/8" tall)

Field Corn Weed Control – 2019

Liberty + Atrazine (~\$18/A)



NTC



Liberty @ 32 oz/A
Atrazine @ 64 oz/A
Applied 22 DAP (V4/8" tall)

Field Corn Weed Control – 2019

Roundup + Impact Z (~\$14/A)



NTC



Roundup PowerMax @ 32 oz/A
Impact Z @ 8 oz/A
Applied 22 DAP (V4/8" tall)

Field Corn Weed Control – 2019

Roundup + Engenia + Prowl H₂O (~\$18/A)



NTC



Roundup W-Max @ 32 oz/A
Engenia @ 6.4 oz/A
Prowl H₂O @ 32 oz/A
Applied 21 DAP (V4/7" tall)

CN-08-19
May 10
18 DAT

Field Corn Weed Control – 2019

Roundup + Status + Prowl H₂O (~\$31/A)



NTC



Roundup W-Max @ 32 oz/A
Status @ 5.0 oz/A
Prowl H₂O @ 32 oz/A
Applied 21 DAP (V4/7" tall)

CN-08-19
May 10
18 DAT

Field Corn Injury – Status (dicamba)



- ❑ CN-04-16
- ❑ Agrigold 6659
- ❑ 7 DAT (April 25, 2016)
- ❑ Roundup P-Max @ 32 oz/A + Status @ 5 oz/A
 - ❑ Applied 27 DAP
 - ❑ V4-V5; 7" tall
- ❑ No yield effect

Field Corn Weed Control – 2019

Atrazine (PRE) fb Roundup + Acuron (POST) (\$31/A)



NTC



Atrazine @ 32 oz/A (PRE)
fb

Roundup W-Max @ 32 oz/A
Acuron @ 48 oz/A
Applied 28 DAP (V6/12" tall)

CN-09-19
May 10
10 days after POST



Corn Herbicide Rotation Restrictions for Corn, Sorghum, Soybean, Ryegrass

Herbicide	Corn	Sorghum	Soybeans	Ryegrass
Atrazine	0	0	NY (10 weeks)	NY
Acuron	0	10 months	10 months	18 months
Dicamba (Xtendimax, Engenia)	0	14-28 days	14-28 days (RR/CV/LL/Enlist) 0 days (Xtend)	14-28 days
Halex GT	0	0 (Concep treated)	10 months (MGI beans?)	10 months
Impact Z	0	9 months	9 months	18 months
Laudis	0	10 months	8 months	18 months
Liberty	0	180 days????	0	180 days
Prowl H ₂ O	0????	10 months	0	10 months
Status	7 days	30 days (1" water)	30 days (1" water)	120 days



Public Enemy #1 in Field Corn



Lay-By Rig for Morningglory



Roundup Powermax II @ 32 oz/A + Evik 80DF @ 2 lbs/A – 36 DAT (June 15, 2018)



16 GPA
30 PSI
3.7 MPH
V7-V8
24" tall

FloodJet
TK-VS2

2019 Lay-By Test - I

UGA Ponder Farm



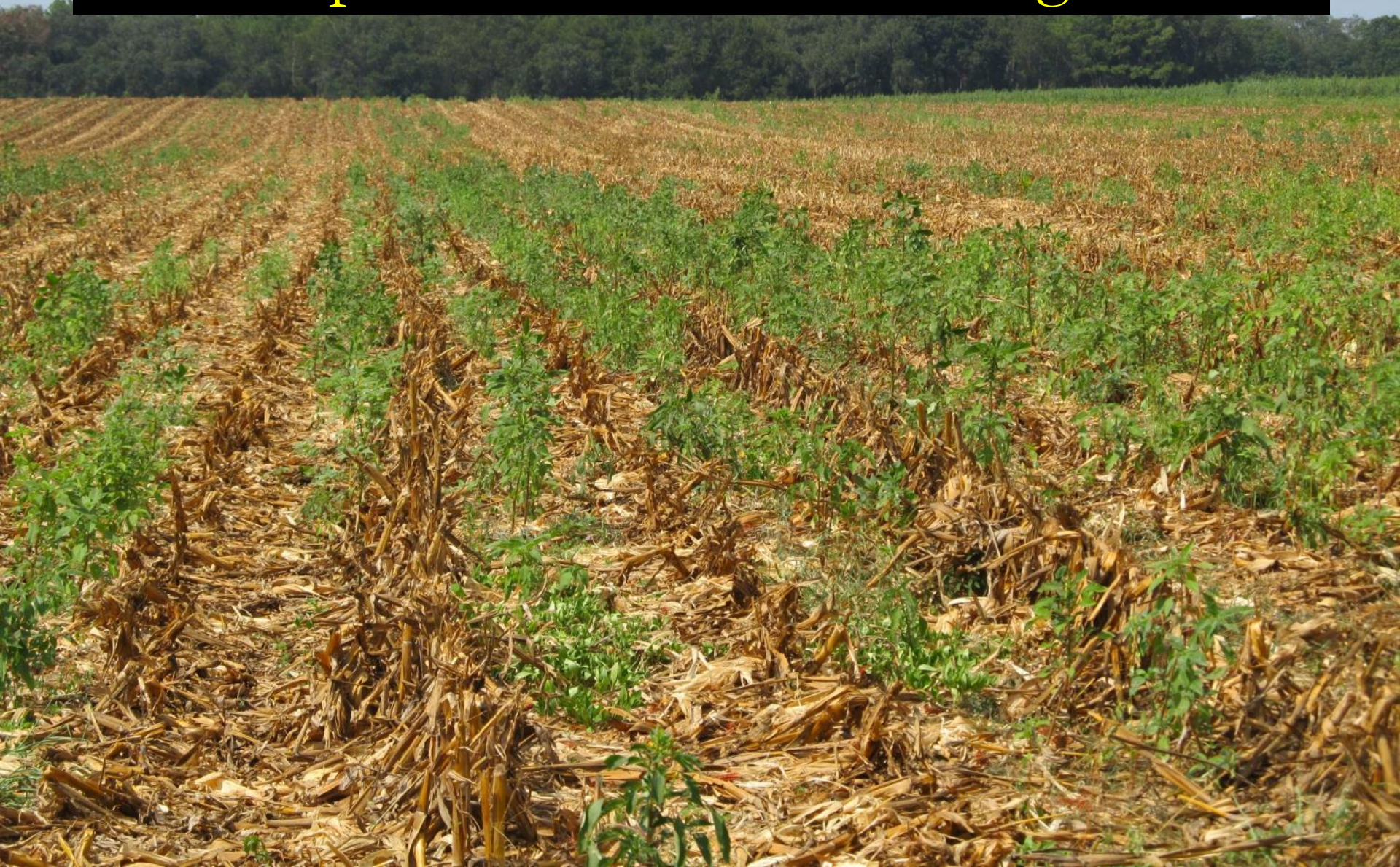
Roundup Powermax II @ 32 oz/A
Tricor 4L @ 5 oz/A



NTC

June 11
33 DAT

Post-Harvest Palmer Amaranth Populations Must be Managed!



Palmer Amaranth Burndown - 2019

(AMAPA 1-6" tall)



NTC



Gramoxone 3SL @ 32 oz/A
Tricor 4L @ 8 oz/A
Induce @ 0.25% v/v

NC-01-19
May 30
10 DAT

**Tropical Spiderwort/Benghal Dayflower (TSW/BD) After Corn Harvest
(need tillage and/or 2 apps of Gramoxone or 2,4-D or Aim)**



Post-Harvest Control of TSW/BD with 2 Applications (14 d apart) of Gramoxone (paraquat)



FORAGE SORGHUM WEED CONTROL UPDATE

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FORAGE SORGHUM WEED CONTROL

- 1) Start clean!
- 2) **Concep** treated seed
- 3) Dual Magnum or Warrant (PRE)
- 4) Atrazine 4L @ 1.5 QT/A (EPOST)
 - 1) Add Huskie if you have ATZ resistance
- 5) Paraquat (Hooded sprayer)
- 6) Mechanical Cultivation

Grain Sorghum Weed Control - 2018



Dual Magnum 7.62EC
24 oz/A (PRE)

NTC

GS-01-18
July 20
86 DAP

Weed Control in Grain Sorghum - 2015



NTC



Warrant @ 48 oz/A – PRE

Atrazine @ 48 oz/A – 23 DAP
COC @ 1% v/v – 23 DAP

A New Product to Consider?

- ***Huskie 2.06EC***
- Bayer CropScience
- Buctril (1.75 lbs/gal) + pyrasulfotole (0.31 lbs/gal)
- MOA = 6 + 27
- Postemergence (13-16 oz/A)
- 3-leaf to 12" tall sorghum
- Broadleaf weeds, good on pigweed
- Tank-mix with atrazine (16 oz/A)



Weed Control in Grain Sorghum - 2015



NTC



Dual II Magnum @ 16 oz/A – PRE
Huskie @ 13 oz/A – 23 DAP
Atrazine @ 16 oz/A – 23 DAP
AMS Xtra @ 2.5% v/v – 23 DAP
NIS @ 0.25% v/v – 23 DAP

Huskie Injury on Sorghum



Other Sorghum Options

- Sandea/Permit – nutsedge
- Auxin Herbicides
 - 2,4-D
 - Dicamba
 - Rate
 - Weed size
 - Injury
 - Off-target movement
 - Newer formulations are better (less volatile)



Engenia™
Herbicide



XTENDIMAX™
with VaporGrip®

Questions/Comments?



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