

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 scene.

Weed Control in Field Corn 2022

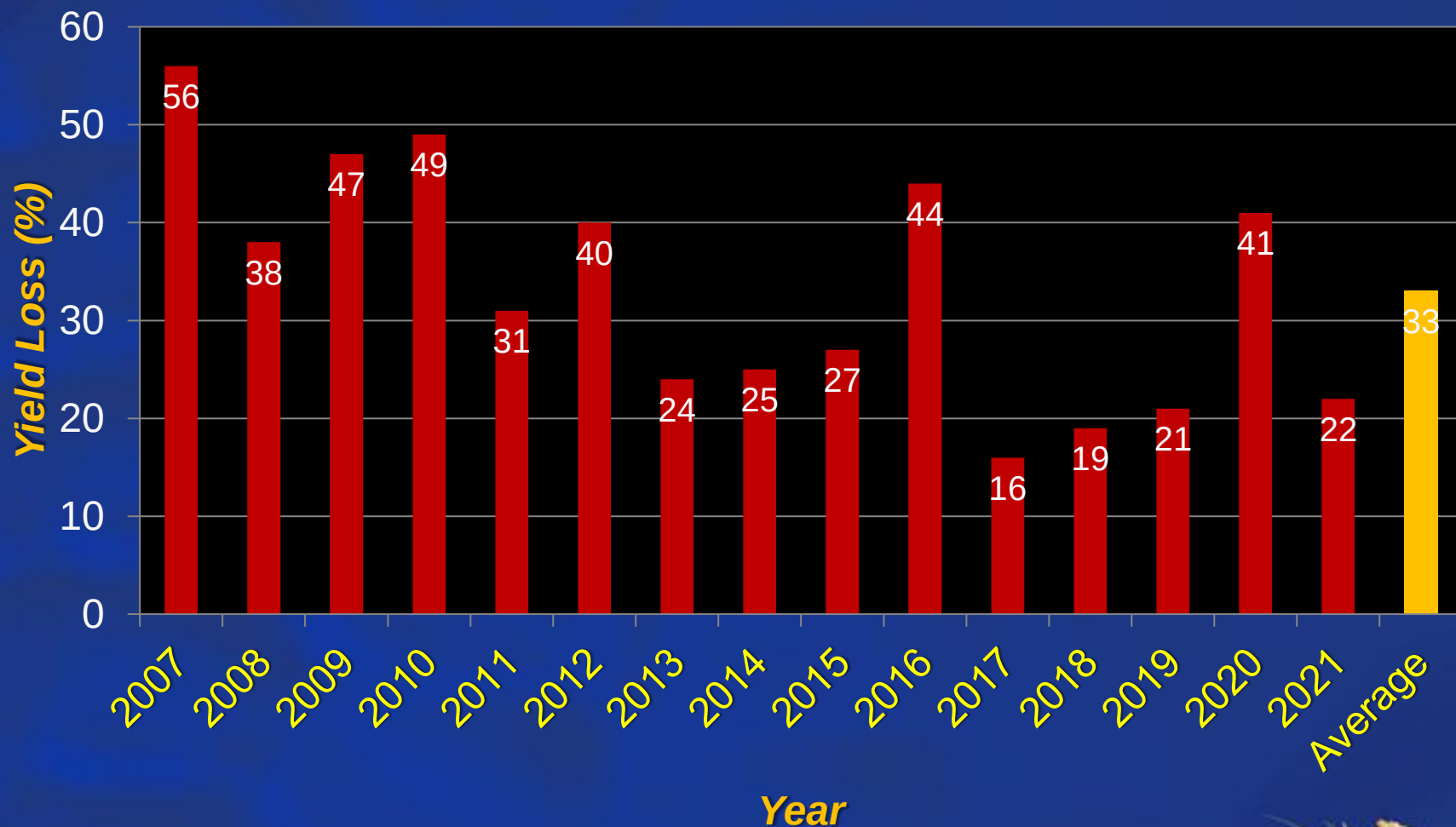
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Field Corn Yield Loss (%) Caused by Uncontrolled Weeds in UGA Weed Science Research Trials (2007-2021). *Treated vs. Non-treated*



200 Bu/A X 0.33 X \$4.00 = \$264/A
What about harvest?
What about next year?



Field Corn Weed Control

Questions for you?

- ❑ What technologies are you planting?
 - ❑ *RR, LL, Conventional, Enlist (2,4-D)?*
- ❑ Do you need Counter?
- ❑ Is atrazine still working for you on pigweed?
 - ❑ *Lets assume it does not*
- ❑ What will be planted after the field corn?



A general plan of attack?

- ❑ MUST START CLEAN!
- ❑ Use 1 qt/A of Atrazine 4L PRE (or Dual II Magnum, or Warrant, or Outlook)
 - ❑ Zidua/Anthem Max (POST)
- ❑ Follow up with a **timely** POST program (**V3-V5 stage**) that includes an additional 1.5 qt/A of Atrazine 4L
 - ❑ **Roundup + Atrazine probably not good enough anymore!**
 - ❑ **Roundup Cost\$/Supply**
- ❑ Lots of options depending upon how you answered previous questions?
 - ❑ **Liberty, Laudis, Impact/Armezon, Halex GT, Callisto, Revulin Q, Shieldex, Acuron, Acuron GT, dicamba, 2,4-D**



Anthem Max, Dual, Warrant, Zidua, Outlook????



DualMagnum®



Zidua® SC

Herbicide

Group 15 Herbicide



ANTHEM®
MAXX
HERBICIDE

Outlook®
Herbicide



Herbicide Timing Effects on Spray Coverage - 2020



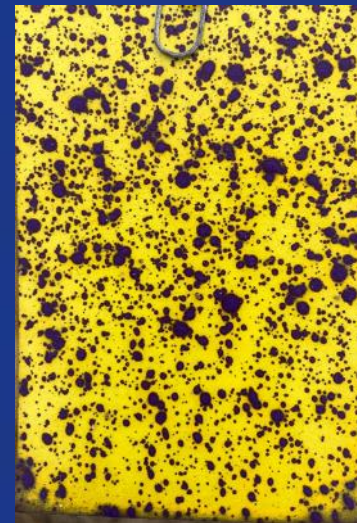
- JD 4630
- 90' boom length
- 20" nozzle spacing
- 10 GPA
- 32 PSI
- 11 MPH
- 8003EVS
- Roundup + Atrazine + Quest + Grounded

CN-06-20
Miller Co.
30 DAP
April 16

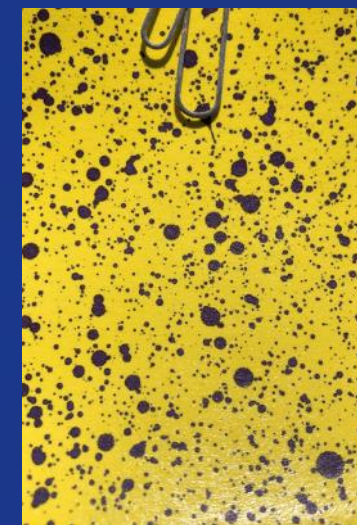
Herbicide Timing Effects on Spray Coverage in Field Corn - 2020



*V4: 9-10" tall
20 DAP*



*V6: 14-16" tall
30 DAP*



2"

6"

Field Corn Weed Control - 2021



NTC



Roundup PowerMax3 @ 25 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Applied 18 DAP

Field Corn Weed Control - 2021



NTC



Liberty @ 32 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Applied 18 DAP

Field Corn Weed Control - 2021



NTC



Roundup PowerMax3 @ 25 oz/A
Laudis @ 3 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Applied 18 DAP

Field Corn Weed Control - 2021

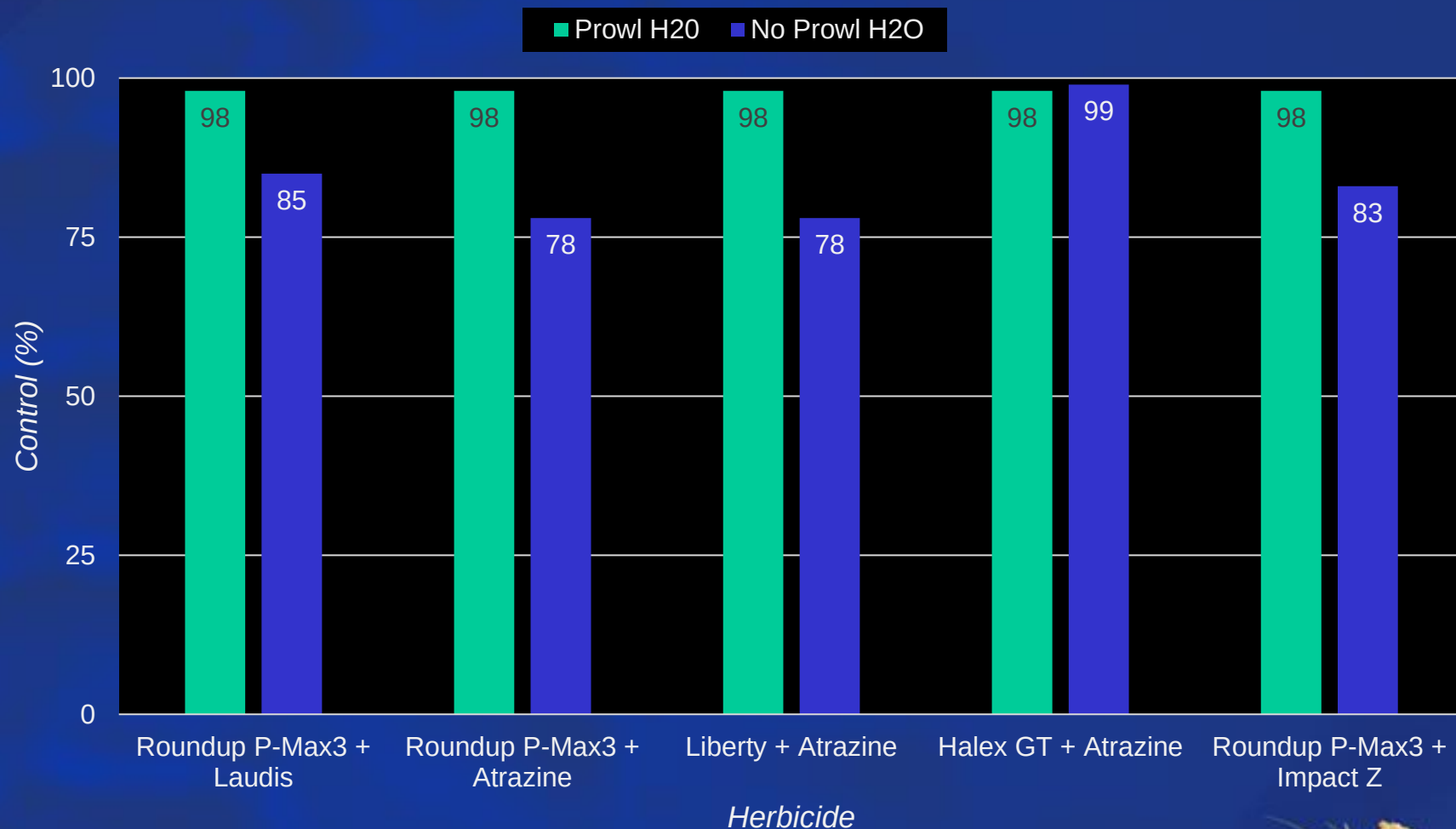


NTC



Halex GT @ 58 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Induce @ 0.25% v/v
Applied 18 DAP

Annual Grass Control in Field Corn - 2021



CN-02-21
May 10
42 DAP
Applied 18 DAP
LSD 0.10 = 12

Field Corn Weed Control - 2021



Field Corn Weed Control - 2021



NTC



Acuron 3.44SC @ 80 oz/A
(Applied PRE)



Comparison of Acuron, Acuron Flexi, Acuron GT, and Halex GT

Trade Name	Active Ingredients (lbs/gal) (WSSA MOA)				
	glyphosate (9)	mesotrione (27)	bicyclopyrone (27)	S-metolachlor (15)	atrazine (5)
Acuron	-	0.240	0.060	2.14	1.0
Acuron Flexi	-	0.320	0.080	2.86	-
Acuron GT	2.00	0.200	0.095	2.00	-
Halex GT	2.09	0.209	-	2.09	-



Field Corn Weed Control - 2021



NTC



Impact 2.8L @ 0.75 oz/A
Roundup P-Max3 5.88SL @ 21 oz/A
Atrazine 4L @ 32 oz/A
Applied 18 DAP

Field Corn Weed Control - 2021



NTC



Shieldex @ 1 oz/A
Atrazine @ 32 oz/A
Agridex @ 1% v/v
AMSOL @ 2% v/v
Applied 21 DAP

Field Corn Weed Control - 2021



NTC



Revulin® Q
HERBICIDE

Roundup P-Max3 @ 21 oz/A
Revulin Q @ 3.5 oz/A
Atrazine @ 32 oz/A
Applied 23 DAP

CN-08-21
May 14
53 DAP



What about dicamba?

- ❑ **Clarity** = dicamba
 - ❑ **Status** = dicamba + diflufenzopyr + isoxadifen (safener)
 - ❑ **Diflexx** = dicamba + cyprosulfamide (safener)
 - ❑ Newer, lower volatility, dicamba formulations are not labeled
 - ❑ *Engenia*
 - ❑ *Xtendimax*
- 

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)



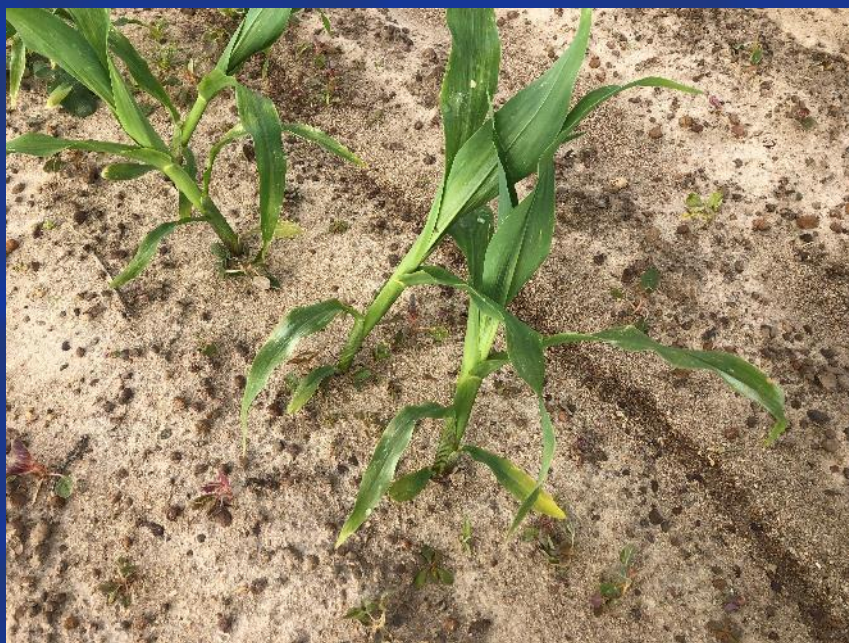
- ❑ CN-04-16
- ❑ Agrigold 6659
- ❑ 7 DAT (April 25, 2016)
- ❑ Roundup P-Max @ 32 oz/A + Status @ 5 oz/A
 - ❑ Applied 27 DAP
 - ❑ V4-V5; 7" tall
- ❑ No yield effect

Roundup W-Max @ 32 oz/A + dicamba @ 0.25 lb ae/A
+ Prowl H₂O @ 32 oz/A
(Applied 9 DAP, V1/2" tall field corn)

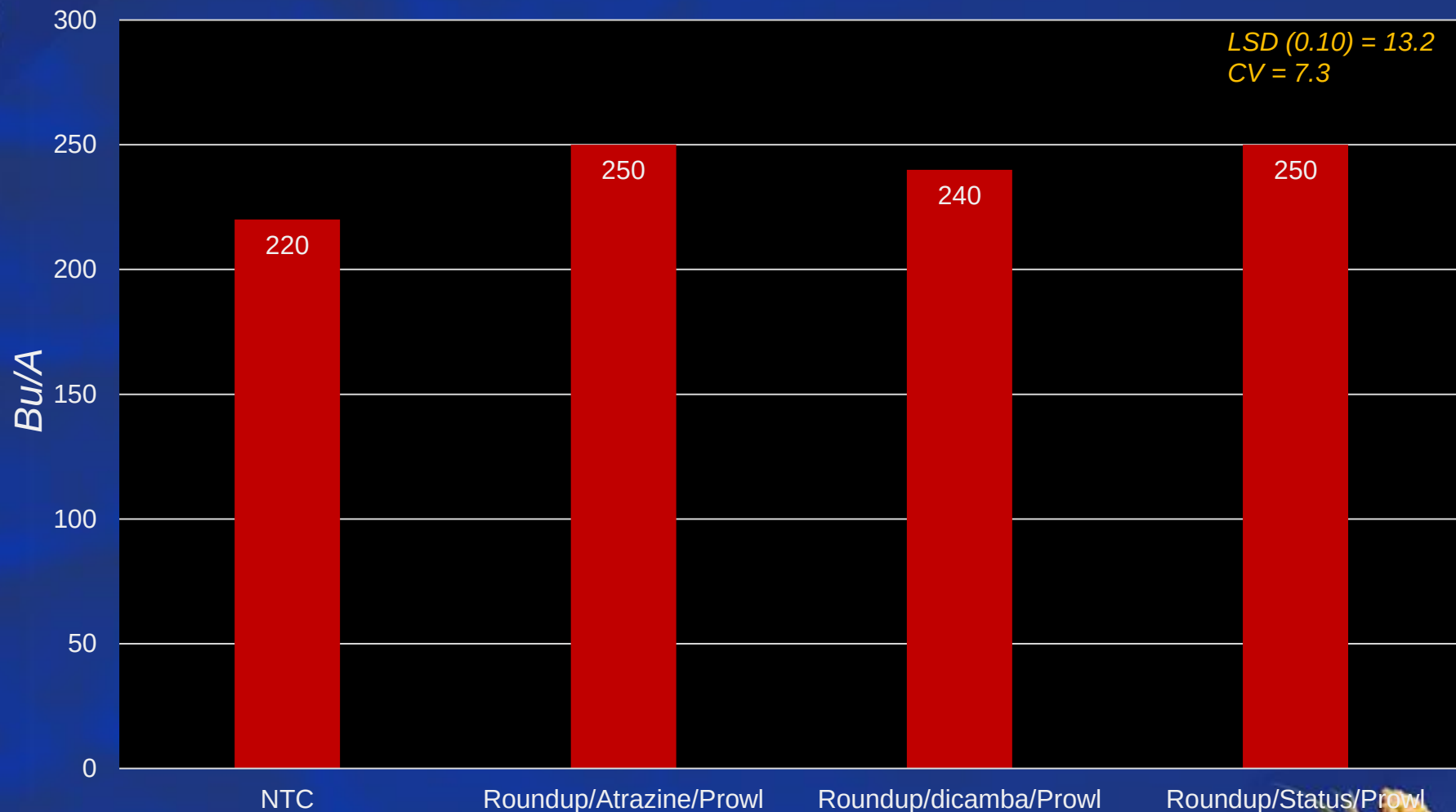


CN-08-19
April 16
6 DAT

Roundup W-Max @ 32 oz/A + dicamba @ 0.25 lb ae/A
+ Prowl H₂O @ 32 oz/A
(Applied 21 DAP, V4/7" tall field corn)



Field Corn Yield (DKC-6208) As Influenced By Herbicide Treatment





New(er) Products Being Tested

❑ AMVAC

- ❑ *Sinate* (glufosinate + topramezone)
- ❑ *Impact Core* (topramezone + acetochlor)

❑ Corteva

- ❑ *Resicore* (mesotrione + acetochlor + clopyralid)

❑ Syngenta

- ❑ *Acuron GT* (bicyclopyrone + s-metolachlor + mesotrione + glyphosate)
- ❑ *Acuron XR* (bicyclopyrone + s-metolachlor + mesotrione + atrazine)

❑ Helm

- ❑ *Katagon* (tolpyralate + nicosulfuron)
- ❑ *Helmet Maxx* (metolachlor + atrazine + mesotrione)

❑ Helena

- ❑ *Empyros* (tolpyralate + s-metolachlor)
- ❑ *Empyros Triad* (tolpyralate + s-metolachlor + atrazine) **(not in SE)**
- ❑ *Empyros Triad Flex* (tolpyralate + s-metolachlor + atrazine) **(not in SE)**

❑ Valent

- ❑ *Maverick* (mesotrione + pyroxasulfone + clopyralid)

❑ Summit Agro

- ❑ *Restraint* (tolpyralate + acetochlor + dichlormid)
- 

Morningglory Control in Field Corn?????



Field Corn Lay-By

(16 GPA, 30 PSI, 3.7 MPH, Floodjet TK-VS2)



Post-Harvest Weed Control

Gramoxone 2L @ 3 pts/A + Tricor 4L @ 8 oz/A + NIS @ 0.25% v/v



09/24/21
Day of application

Post-Harvest Weed Control

Gramoxone 2L @ 3 pts/A + Tricor 4L @ 8 oz/A + NIS @ 0.25% v/v



10/22/21
28 DAT

Post-Harvest Weed Control

Gramoxone 2L @ 3 pts/A + Tricor 4L @ 8 oz/A + NIS @ 0.25% v/v



11/03/21
40 DAT

Tropical Spiderwort/Benghal Dayflower



- ❑ Bury seed!
- ❑ Residuals-Group 15's
 - ❑ *Dual Magnum, Outlook, Warrant, Zidua, Anthem Max*
- ❑ POST – 2,4-D
- ❑ Directed
 - ❑ *Aim, Paraquat, Evik*
- ❑ Post-Harvest
 - ❑ *2,4-D, Aim, Paraquat*

Tropical Spiderwort Control in Field Corn Control with Lay-Bys (8 DAT)



Untreated



Aim 2EC @ 1.5 ozs/A
Agrioil @ 1% v/v



Gramoxone 3SC @ 1 pt/A
80/20 @ 0.25% v/v



Evik 80WP @ 2 lb/A
80/20 @ 0.5% v/v

**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)



CN-01-06
COMBE: 8-10", flowering
1 week after POST2

Field Corn Weed Control - Summary

- ❑ **Start Clean**
- ❑ Use a PRE
- ❑ Timely POST (V3-V5)
 - ❑ *need something else with Roundup + ATZ*
- ❑ Lay-By for MG
- ❑ Post-Harvest
 - ❑ *pigweed*
 - ❑ *dayflower*



Questions/Comments?



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