

The background of the slide features a close-up, artistic photograph of corn cobs and their husks. The cobs are arranged vertically, with the kernels showing a mix of yellow and reddish-orange hues. The husks are partially peeled back, revealing the cobs. The overall image has a soft, painterly quality with a blue gradient overlay.

Weed Control in Field Corn 2021

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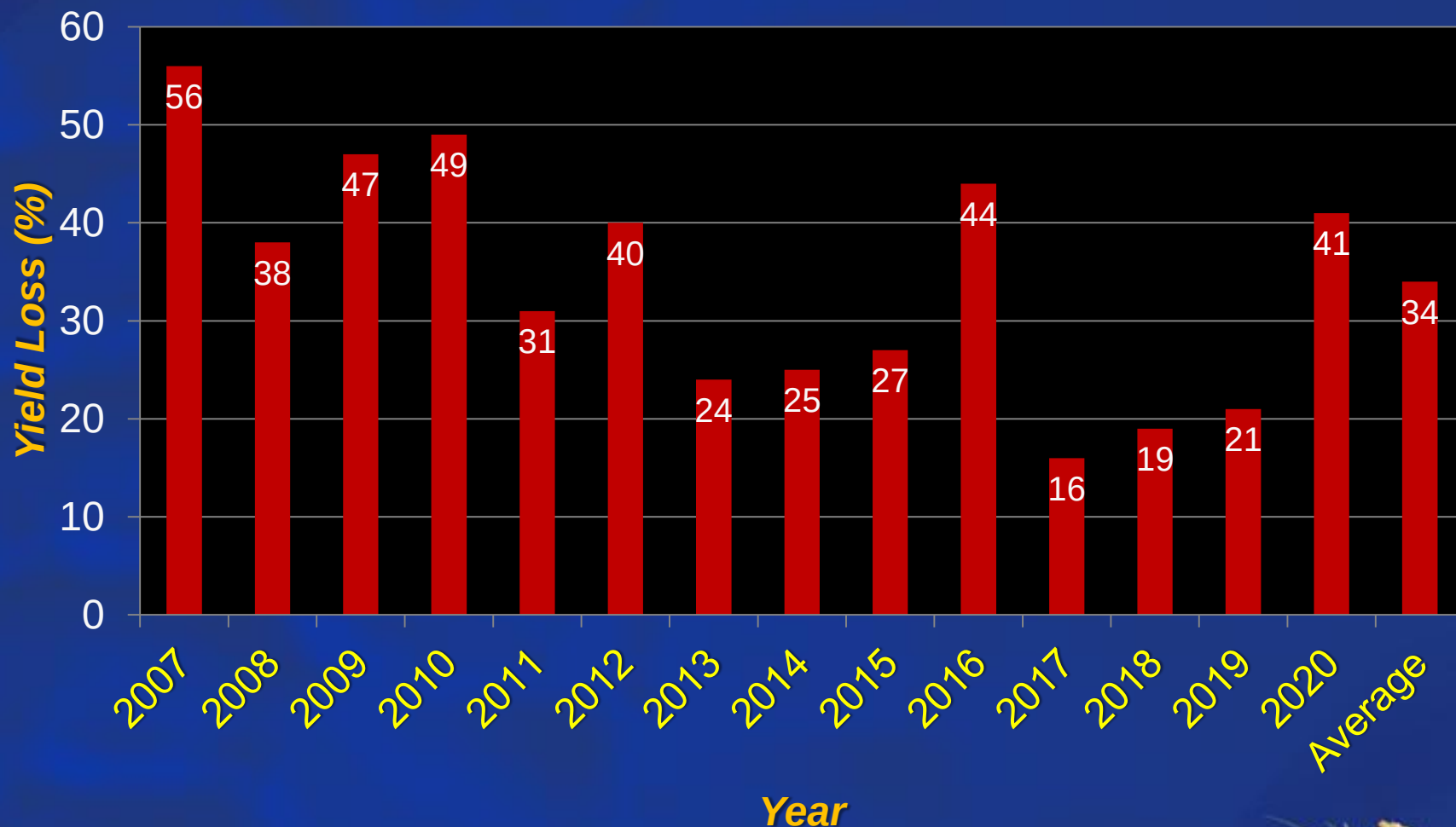
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Herbicide Carryover or Soil pH



Soil pH = 4.7

Field Corn Yield Loss (%) Caused by Uncontrolled Weeds in UGA
Weed Science Research Trials (2007-2020).
Treated vs. Non-treated



$200 \text{ Bu/A} \times 0.34 \times \$4.00 = \$272/\text{A}$
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)
- ❑ 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!*
- ❑ Lots of options depending upon how you answered previous questions?
 - ❑ *Liberty, Laudis, Impact/Armezon, Halex GT, Callisto, Acuron, dicamba, 2,4-D*



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

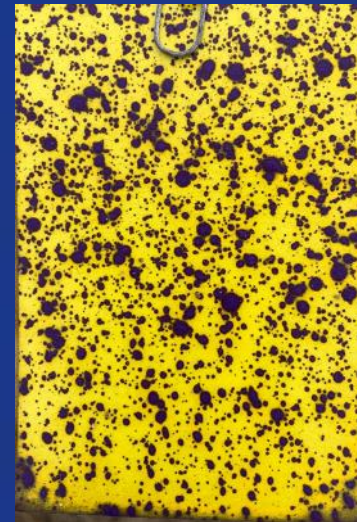
Herbicide Timing Effects on Spray Coverage in Field Corn - 2020

2"



V4: 9-10" tall
20 DAP

6"



2"

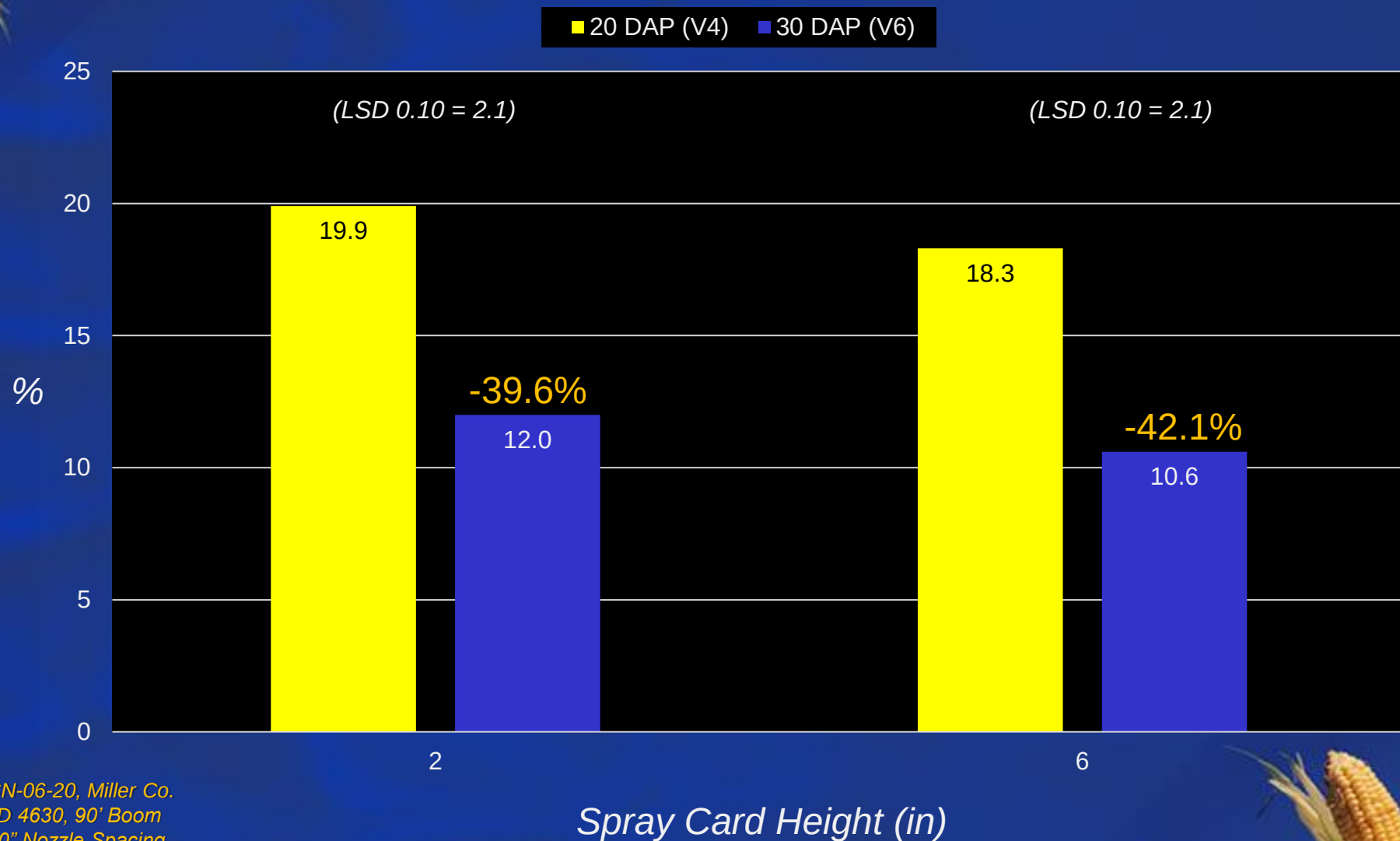


V6: 14-16" tall
30 DAP

6"



Herbicide Timing Effects on Spray Coverage (%) in Field Corn - 2020



CN-06-20, Miller Co.
JD 4630, 90' Boom
20" Nozzle Spacing
10 GPA, 32 PSI
11 MPH, 8003EVS Nozzles

Roundup + Atrazine + Prowl Works Great For Me But.....

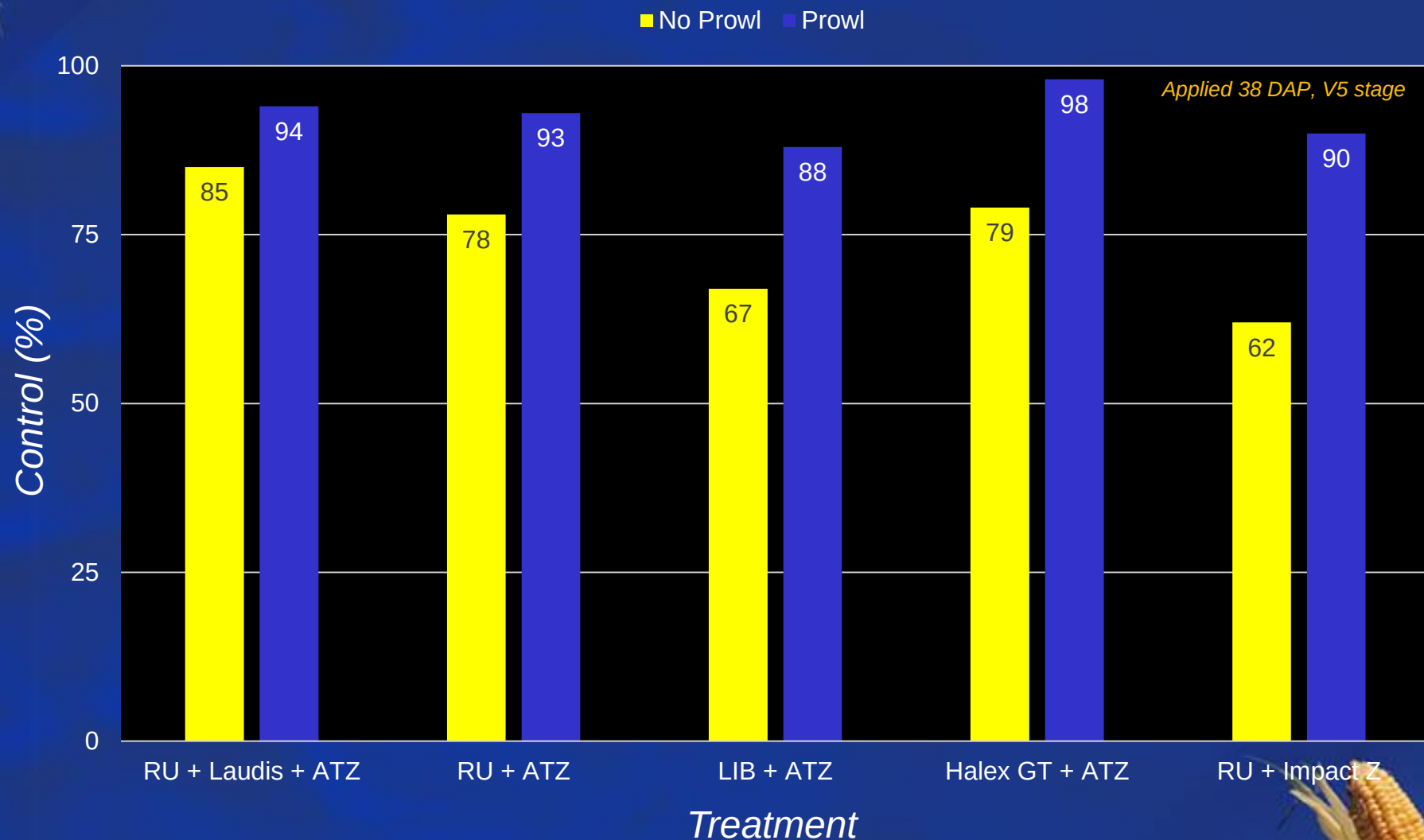


CN-08B-20
May 21
23 DAT

Field Corn Weed Control - 2020



Texas Panicum Control in Field Corn – 2020 (49 DAT)

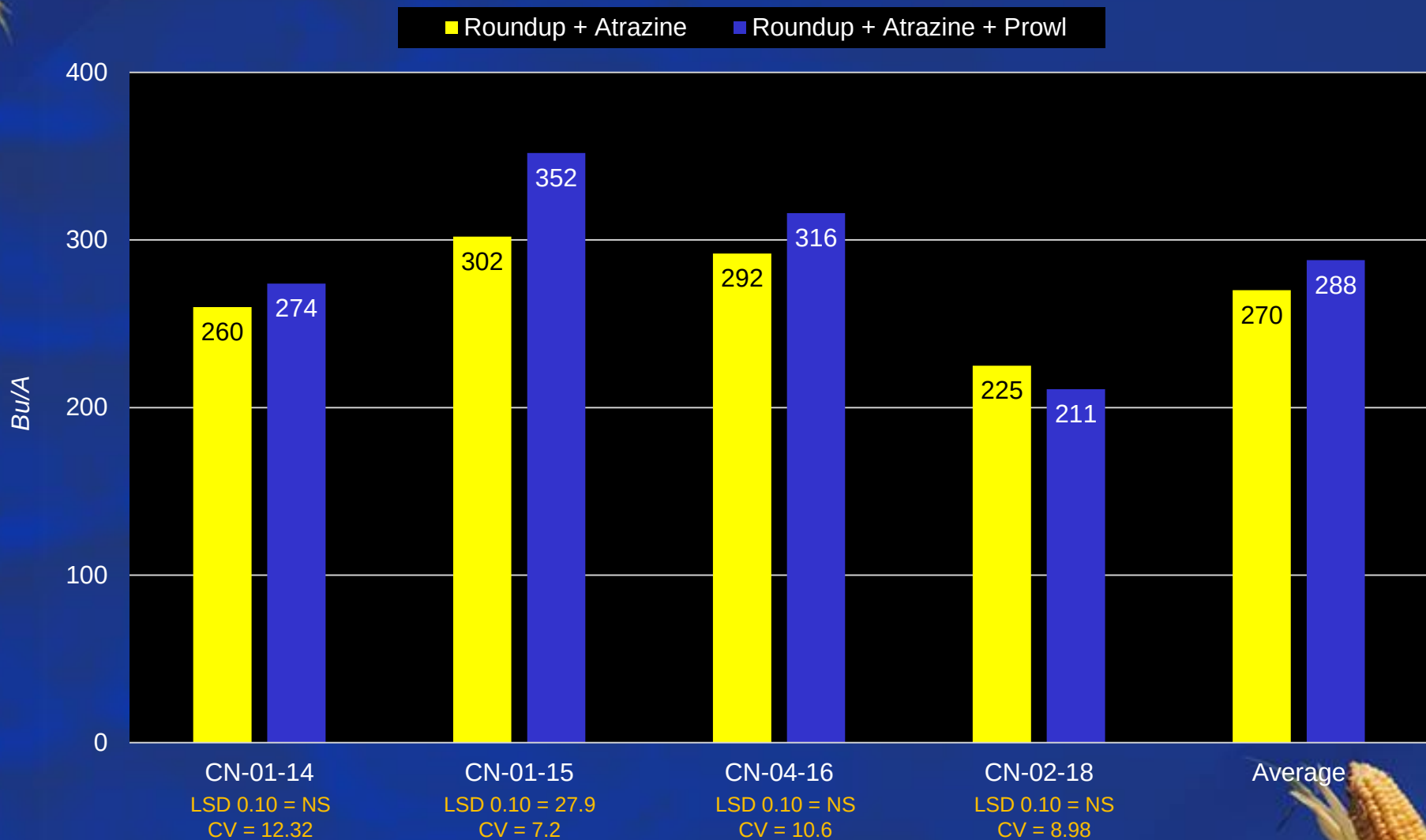


LSD 0.10 = 9.2

CV = 8.89

Source: C. Cahoon (NCSU)

Does POST Applied Prowl Cause Field Corn Yield Loss???



Field Corn Weed Control - 2020



Laudis 3.45SC @ 3 oz/A + Atrazine 4L @ 64 oz/A +
Dual Magnum 7.62EC @ 16 oz/A + MSO @ 1% v/v



CN-02-20
April 21
7 DAT

Field Corn Weed Control - 2020



CN-09B-20
May 21
22 DAT

Field Corn Weed Control - 2020



Field Corn Weed Control – 2020

Roundup + Liberty????



PE-15-20
May 21
23 DAT

Field Corn Weed Control – 2020

Roundup + Liberty????



NTC



Roundup Powermax II @ 32 oz/A
Liberty @ 32 oz/A
Atrazine @ 64 oz/A
Prowl H₂O @ 32 oz/A
Applied 19 DAP

PE-15-20
June 16
68 DAP



New(er) Products Being Tested

- ❑ **Sinate** (glufosinate + topramezone)
 - ❑ *AMVAC*

 - ❑ **Impact Core** (topramezone + acetochlor)
 - ❑ *AMVAC*

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

 - ❑ **Shieldex** (toppyralate)
 - ❑ *Summit Agro USA*
- 

Sinate - 2020



Sinate 2.57SL @ 21 oz/A
Atrazine 90DF @ 9 oz/A
MSO @ 1% v/v
AMS @ 3 lb/A
Applied 19 DAP



Impact Core - 2020



Impact Core 7.15EC @ 30 oz/A
Atrazine 4L @ 32 oz/A
NIS @ 0.25% v/v
AMS @ 2.5 lbs/A
Applied 19 DAP



CN-07B-20
May 18
21 DAT

Impact Core 7.15EC @ 40 oz/A + Atrazine 4L @ 32 oz/A + Induce @ 0.25%v/v + AMS @ 2.5 lb/A



Acuron GT - 2020



Shieldex - 2020



Bicep Lite II Magnum 6SC @ 53 oz/A (PRE)

Shieldex 3.33SC @ 1 oz/A (26 DAP)

Atrazine 4L @ 16 oz/A (26 DAP)

Agridex @ 1% v/v (26 DAP)

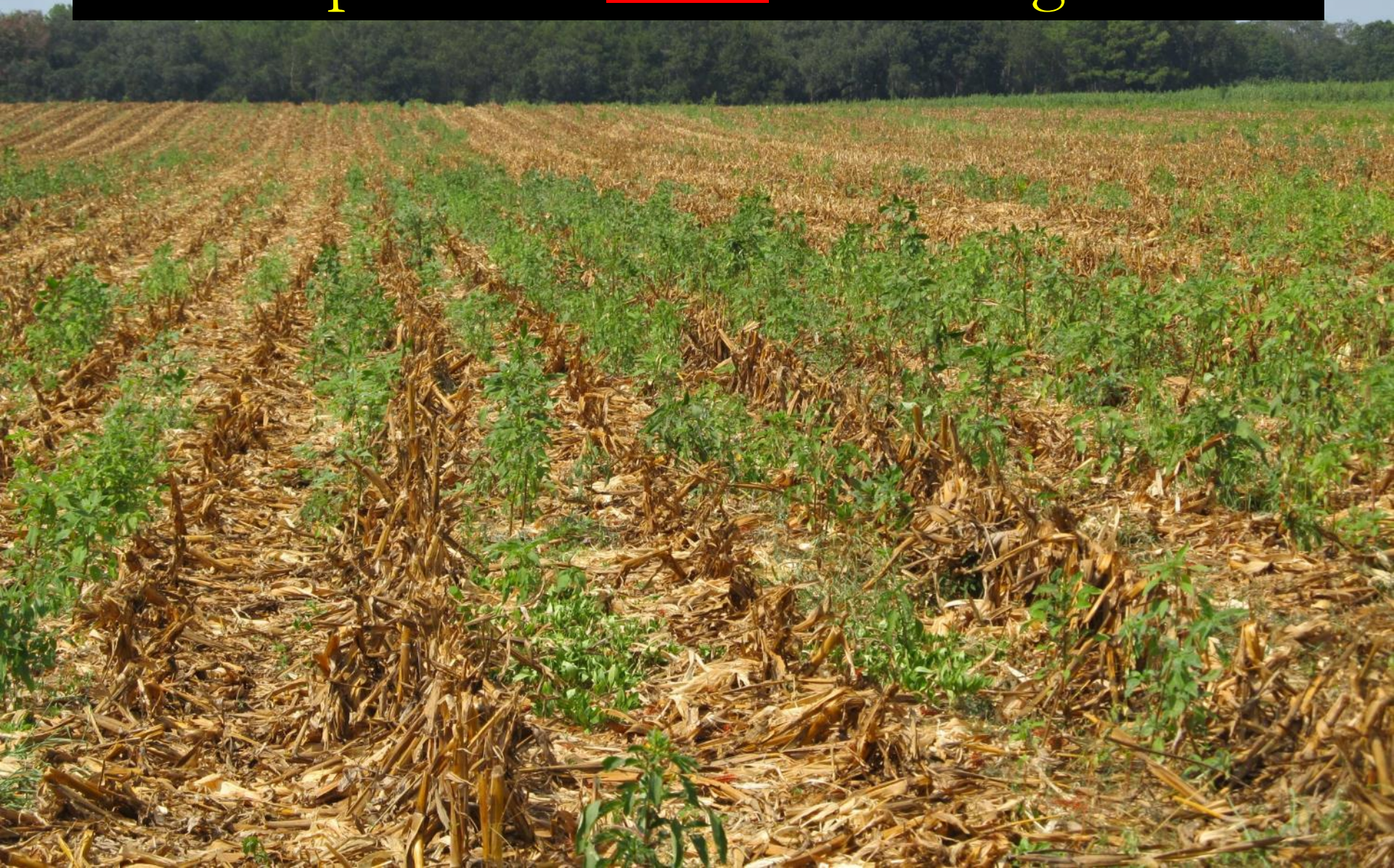


Field Corn Lay-By

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



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)



Questions/Comments?



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