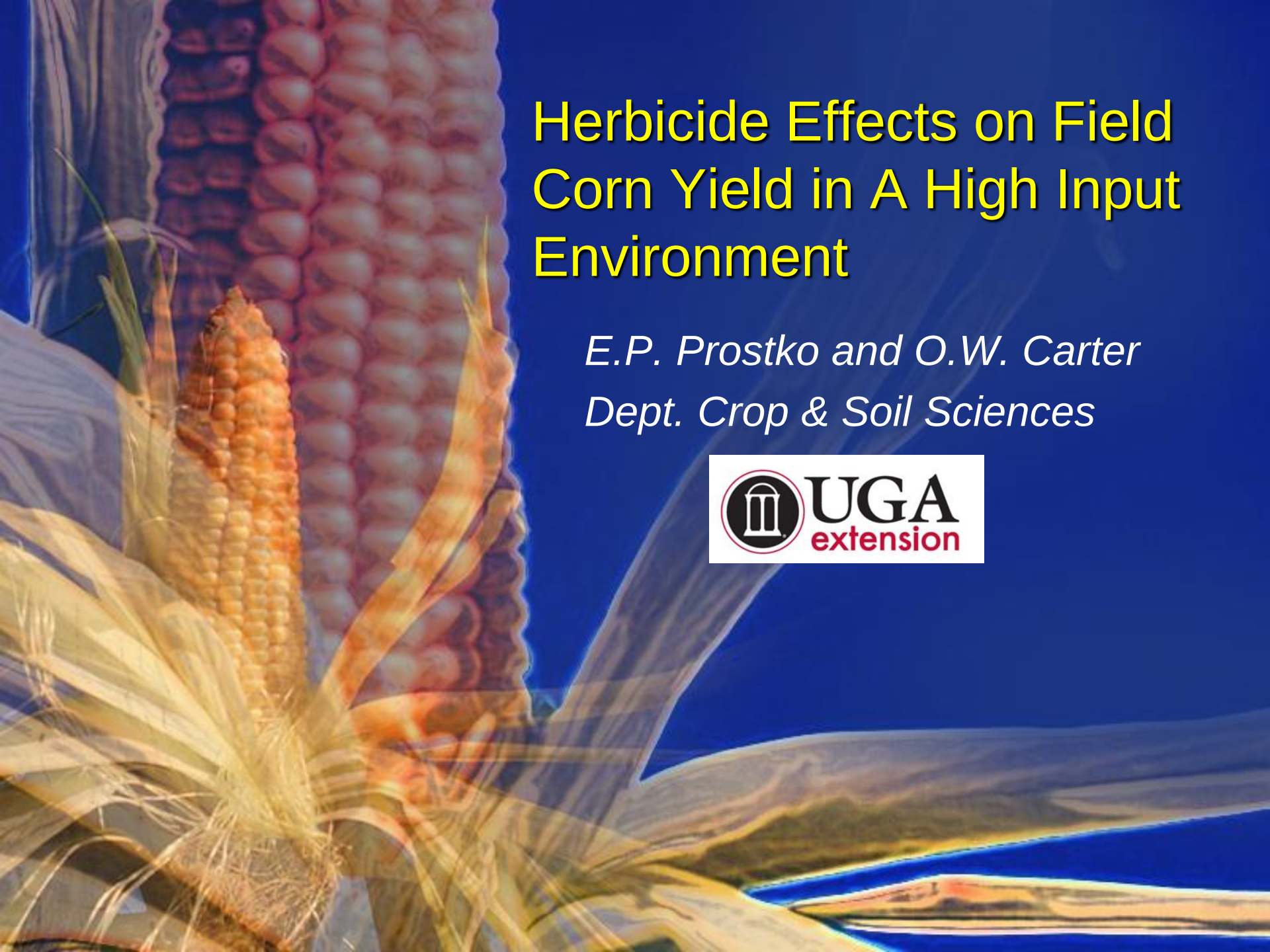


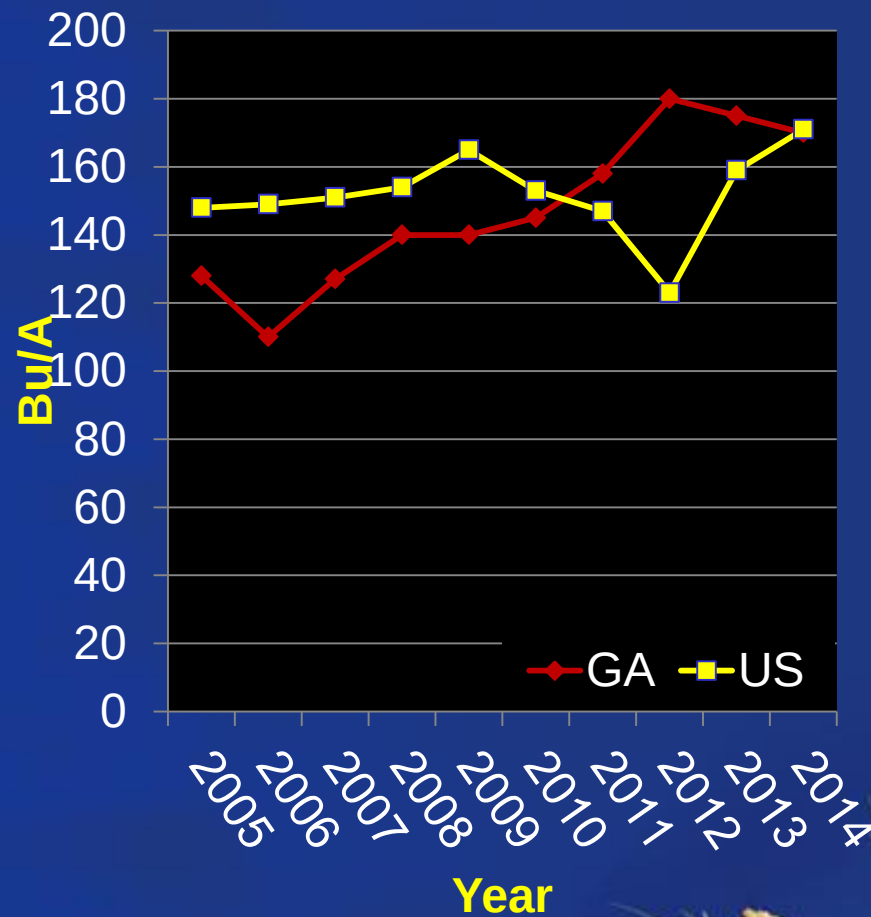
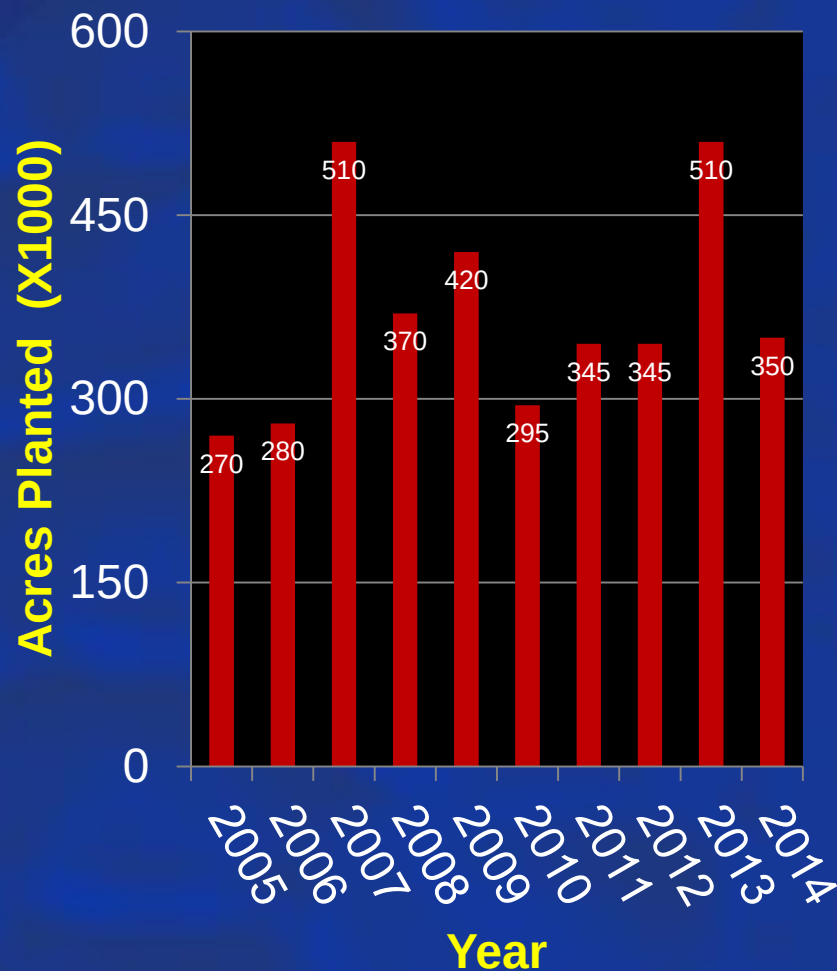
The background of the slide features a close-up photograph of corn cobs and their husks. The husks are a mix of yellow and brown, indicating they have been partially removed. The corn cobs are a vibrant yellow-orange color. The entire image is set against a solid blue background.

Herbicide Effects on Field Corn Yield in A High Input Environment

E.P. Prostko and O.W. Carter
Dept. Crop & Soil Sciences



Georgia Field Corn Production

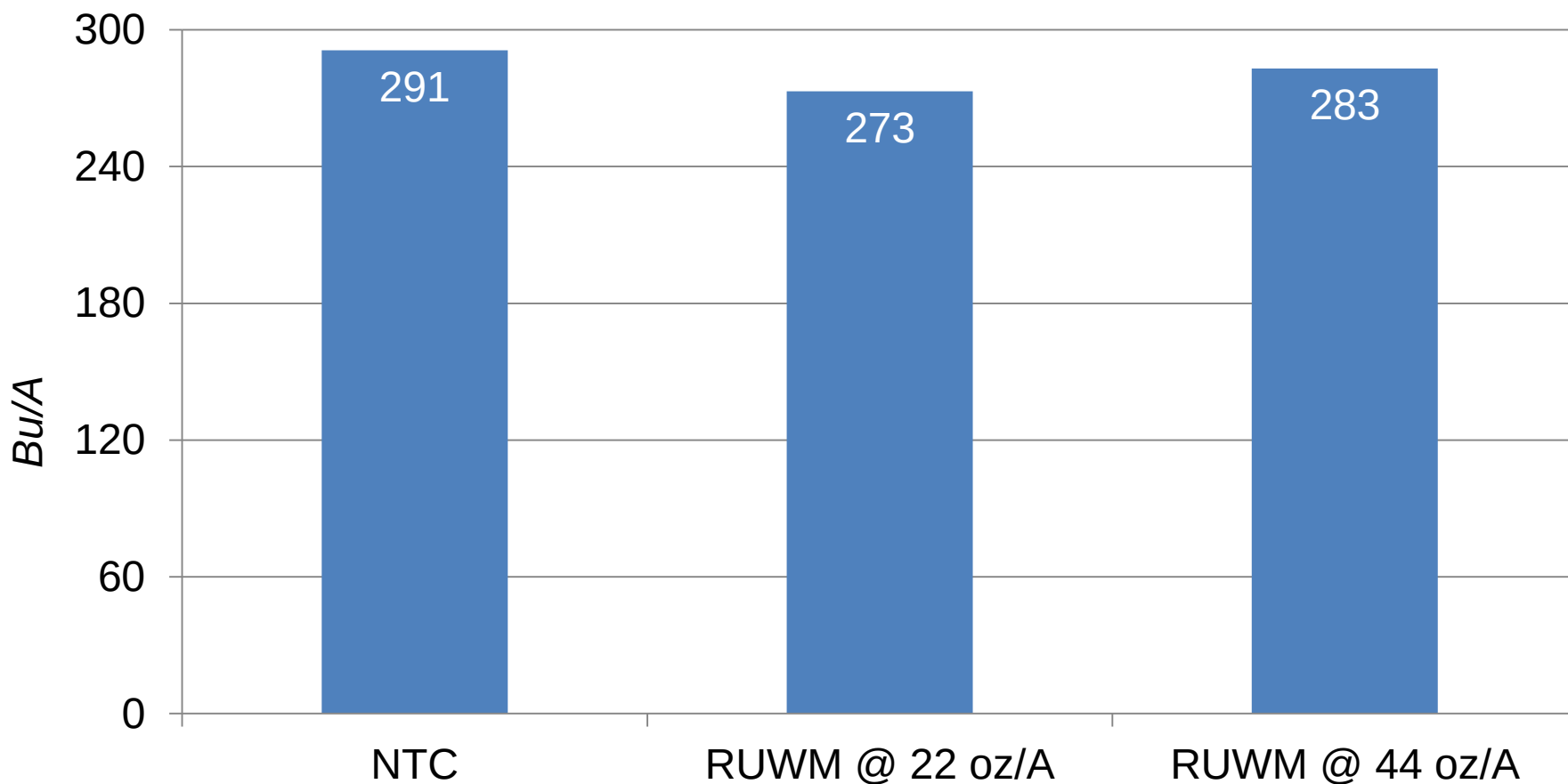


Some pushing

-
- A green John Deere combine harvester is shown in the process of harvesting corn in a field. The combine's header is cutting through the corn stalks, and its auger system is discharging a large volume of golden-yellow corn grain into the bed of a blue trailer. A green John Deere tractor is positioned behind the trailer, pulling it. The background shows a clear blue sky with some light clouds and a distant horizon line. The overall scene depicts a busy agricultural operation during harvest season.



RR1 Field Corn (Pioneer 2023BVT) Yield Response to Roundup WeatherMax



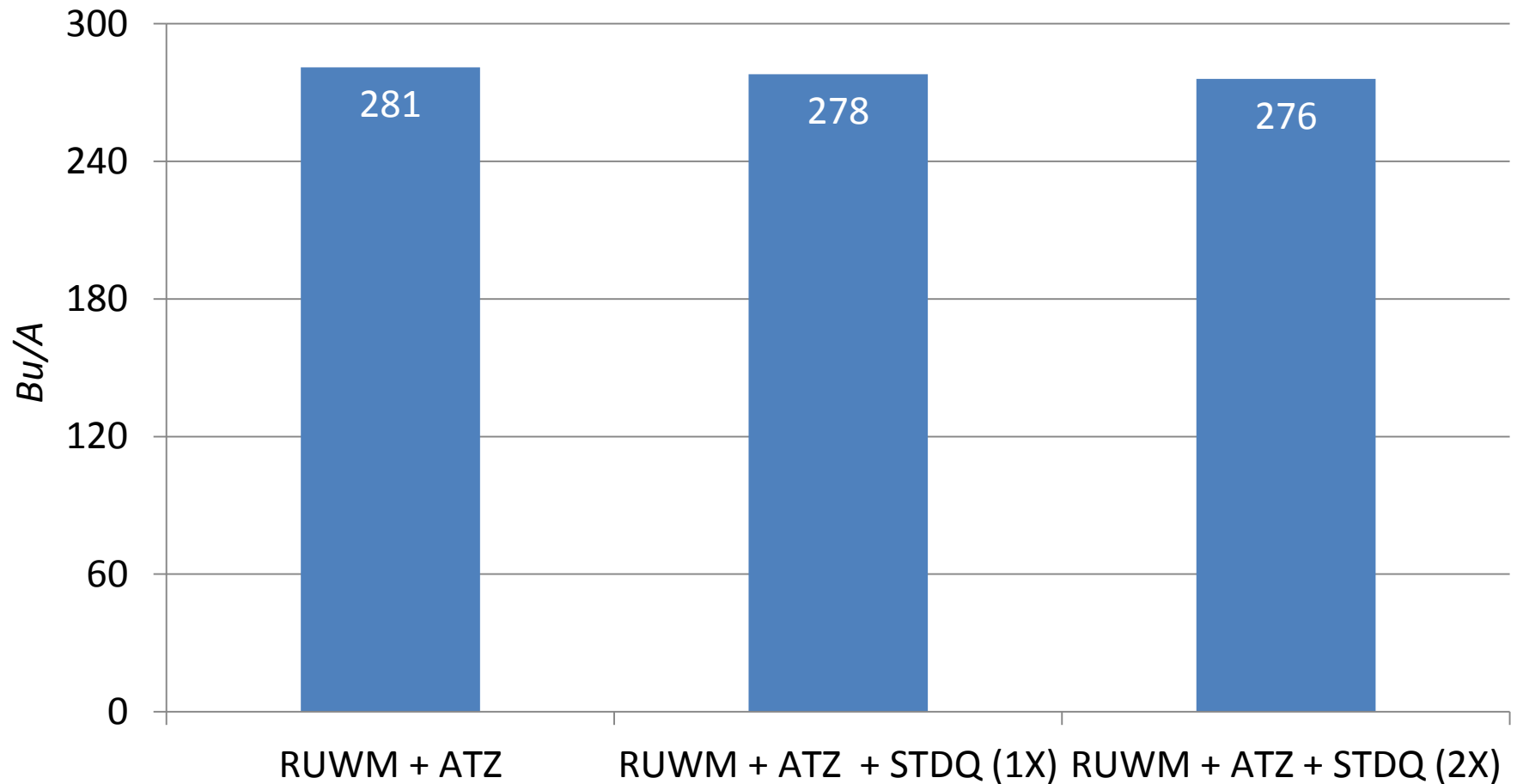
P = 0.2275
CV = 3.8

Applied 28 DAP, V5, 5" tall corn
All trts included Aatrex 4L @ 64 oz/A +
COC @ 1% v/v

'DKC 64-69' Yield Response to POST

Applications of Steadfast Q

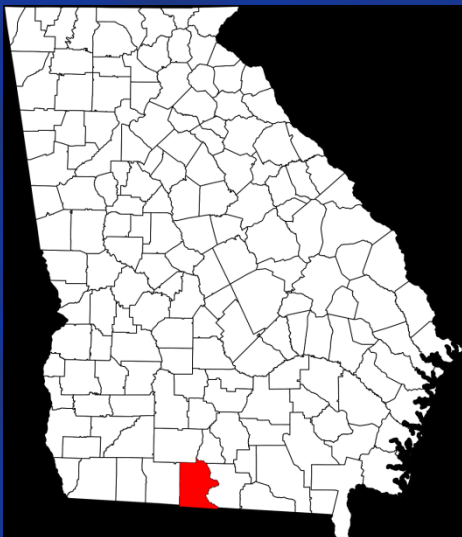
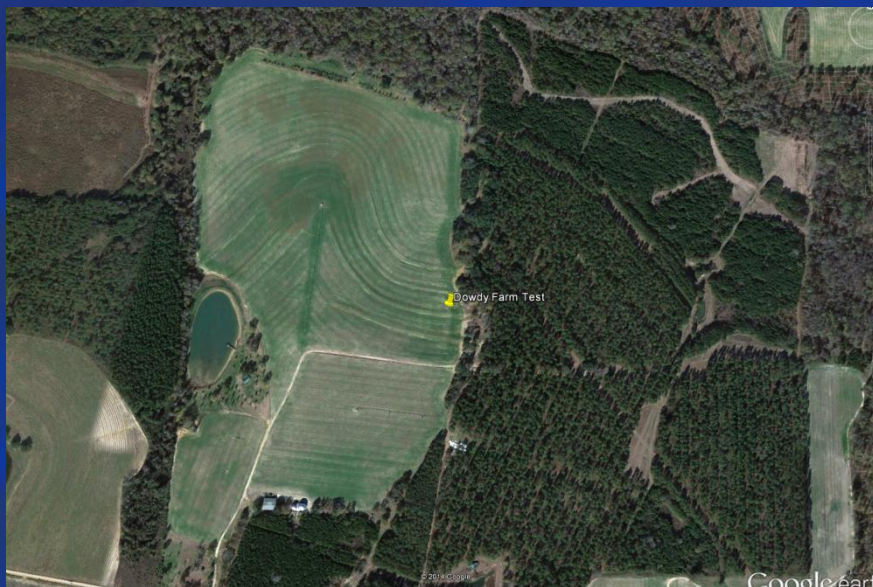
(RUWM @ 22 oz/A, ATZ @ 64 oz/A, STDQ @ 1.5 or 3 oz/A)



$P = 0.5017$
 $CV = 1.75$

*Applied 28 DAP
V4, 6" tall corn*

Materials and Methods



- Brooks County, GA
- Small plot techniques
- Test 1
 - 7 herbicides
 - 1 timing (V3-V4, 4" tall, 21 DAP)
- Test 2
 - 1 herbicide
 - *RUWM (32 oz/A) + ATZ (48 oz/A) + AMS (2.5% v/v)*
 - 4 timings
 - *V2-V3, V4, V6-V7, V7-V8*



Test 1 Herbicides

Trt #	Treatment*
1	NTC
2	RUWM (32 oz/A) + Atrazine (48 oz/A) + Prowl H ₂ O (32 oz/A)
3	RUWM (32 oz/A) + Atrazine (48 oz/A)
4	Liberty (29 oz/A) + Atrazine (48 oz/A)
5	Steadfast Q (1.5 oz/A) + Atrazine (48 oz/A) + COC (1% v/v)
6	Capreno (3.0 oz/A) + Atrazine (48 oz/A) + COC (1% v/v)
7	Laudis (3.0 oz/A) + Atrazine (48 oz/A) + COC (1% v/v)
8	Halex GT (64 oz/A) + Atrazine (48 oz/A) + NIS (0.25% v/v)
9	RUWM (32 oz/A) + Atrazine (48 oz/A) + Sandea (0.67 oz/A)

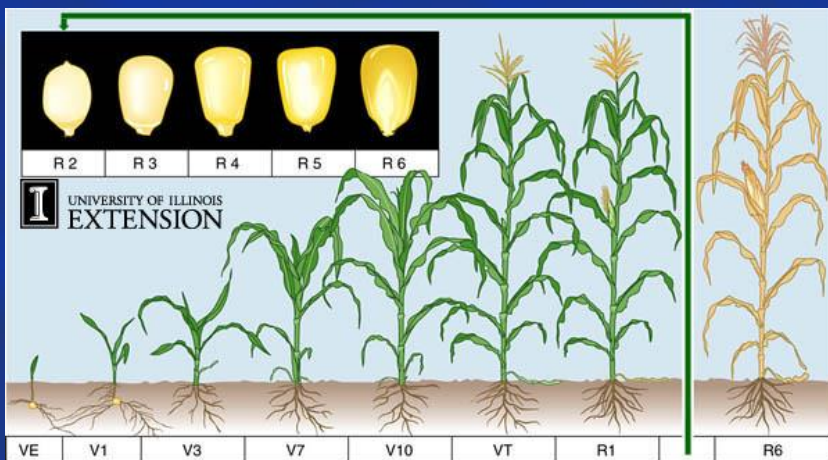
*RUWM = Roundup WeatherMax, NIS = Adept, COC = Reliable



Test 2 Corn Info



Stage	Height (in)	DAP
V2-V3	3	19
V4	5-8	30
V6-V7	8-12	37
V7-V8	23-27	46



High Input Environment - 2014

- Pioneer 1685
- Planted March 22
- Tifton loamy sand
- Twin Row (48"-15")
- 42,000 seed/A
- 340-60-150/A
 - 5-6 apps of N via pivot
- 3 fungicides
 - Approach – V12 (1 app)
 - Approach/Prima + B (2 apps)
- 3 insecticides
 - Bifenthrin (with fungicides)
- ~27" rainfall (March 22 – Aug 12)
- 9" supplemental irrigation (pivot)



Results





Figure 1. Herbicide Effects on Field Corn Yield in a High Input Environment

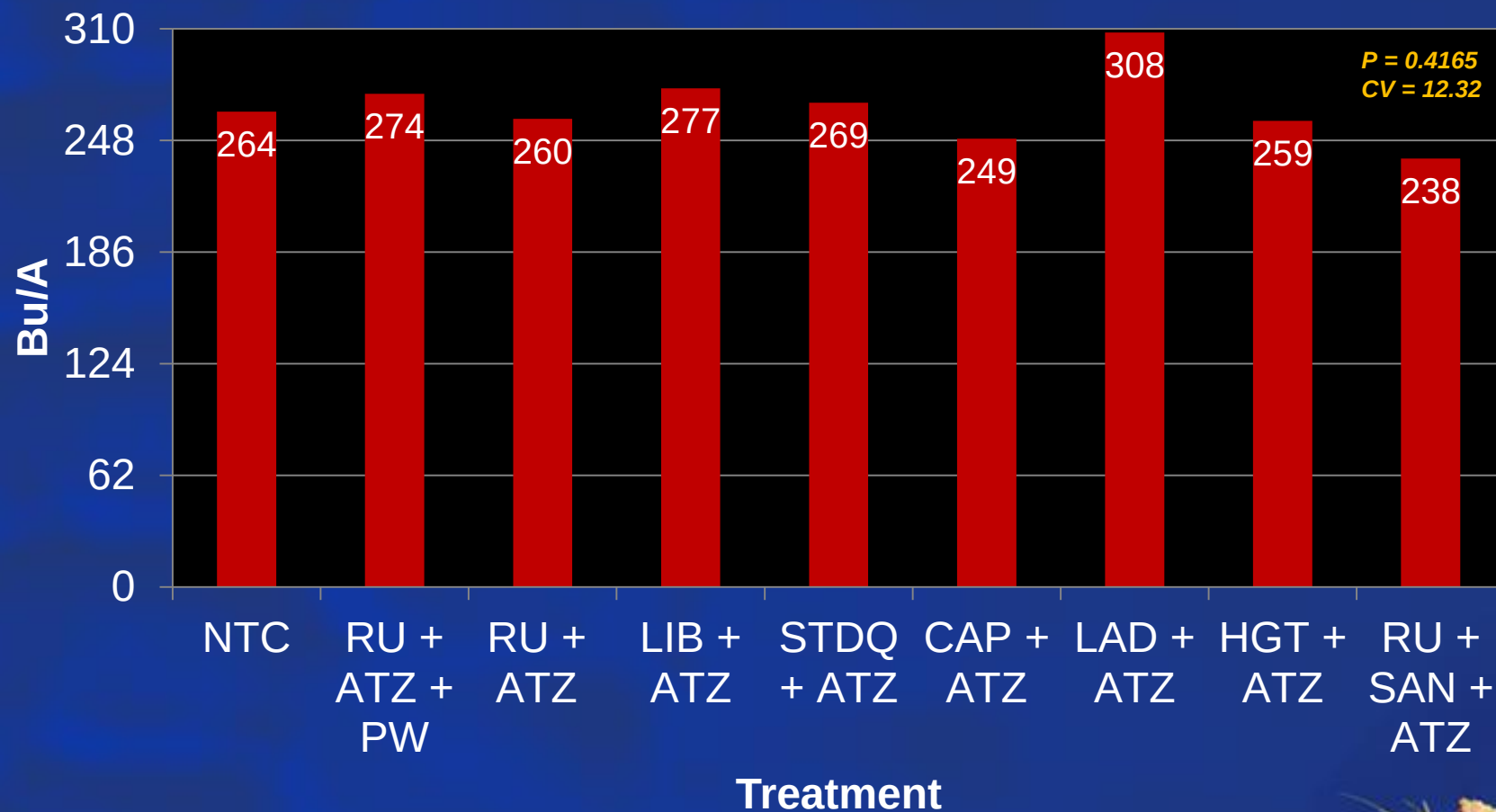




Figure 2. Herbicide Effects on Field Corn Ear #/A
in a High Input Environment

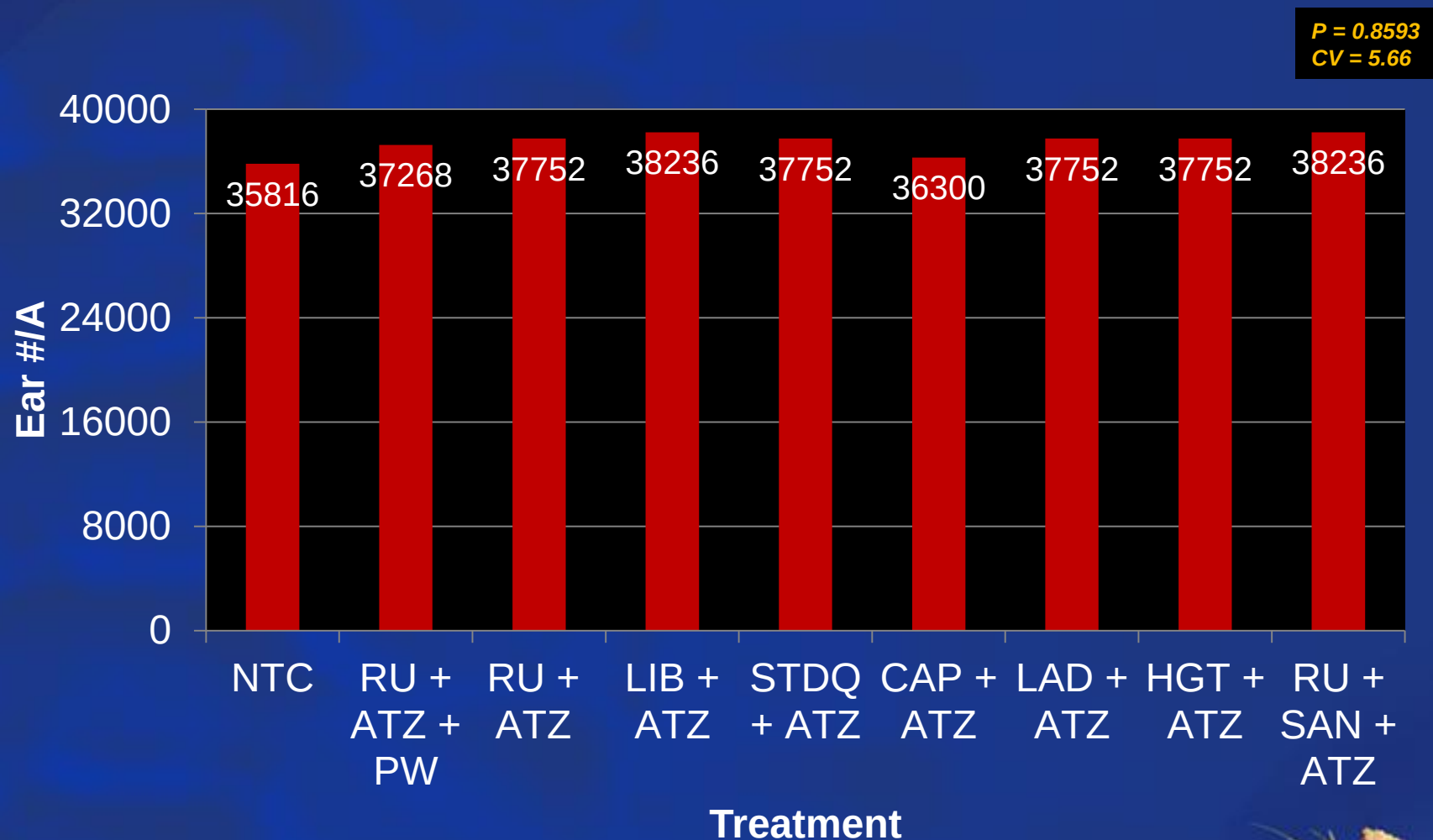
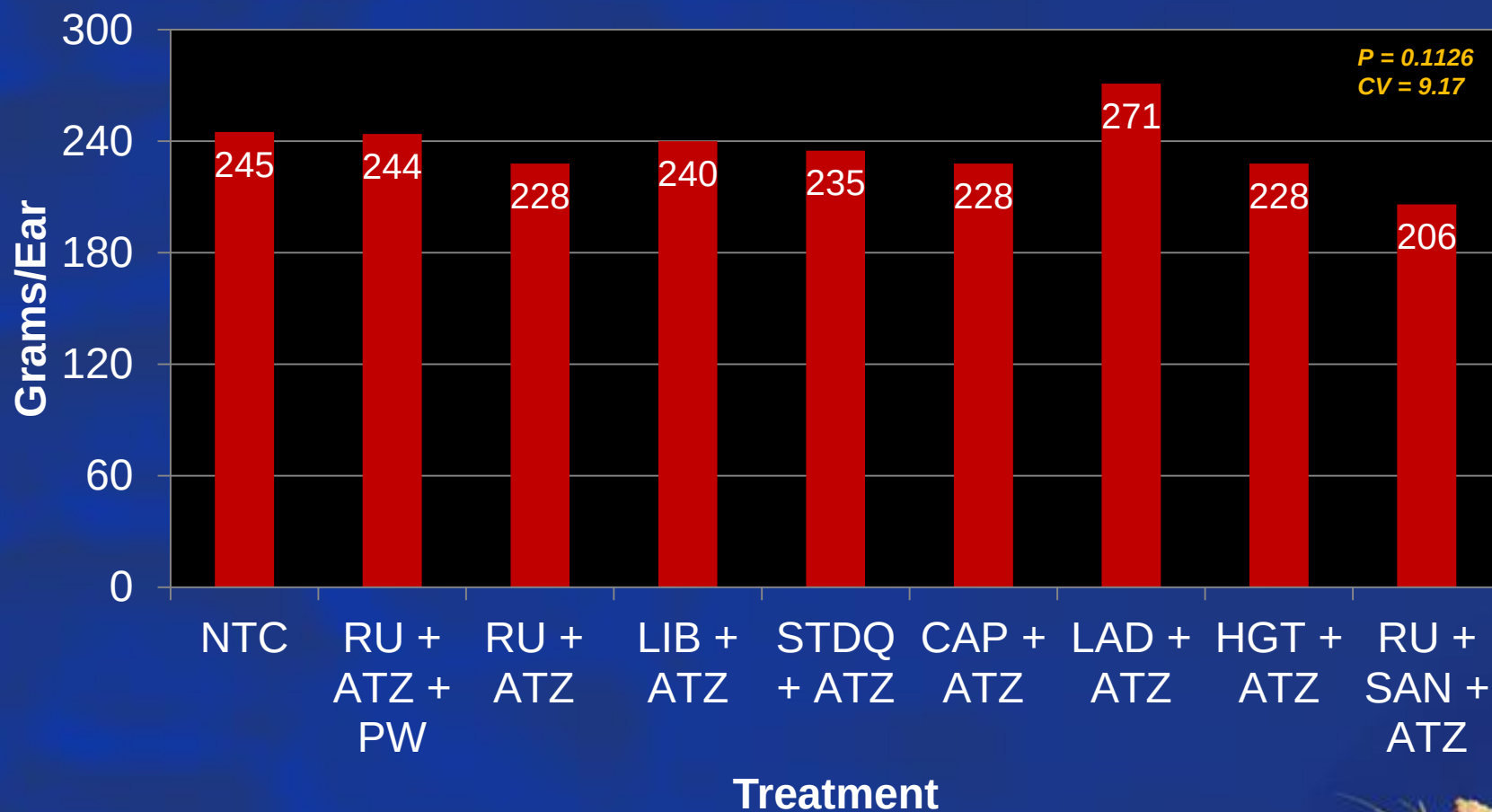




Figure 3. Herbicide Effects on Field Corn Ear Weight in a High Input Environment



Roundup + Sandea + Atrazine?????? (26 DAT) - 2014





Figure 4. Roundup W-Max (32 oz/A) + Atrazine (48 oz/A) + AMS Xtra (2.5% v/v) Timing Effects on Field Corn Yield in a High Input Environment

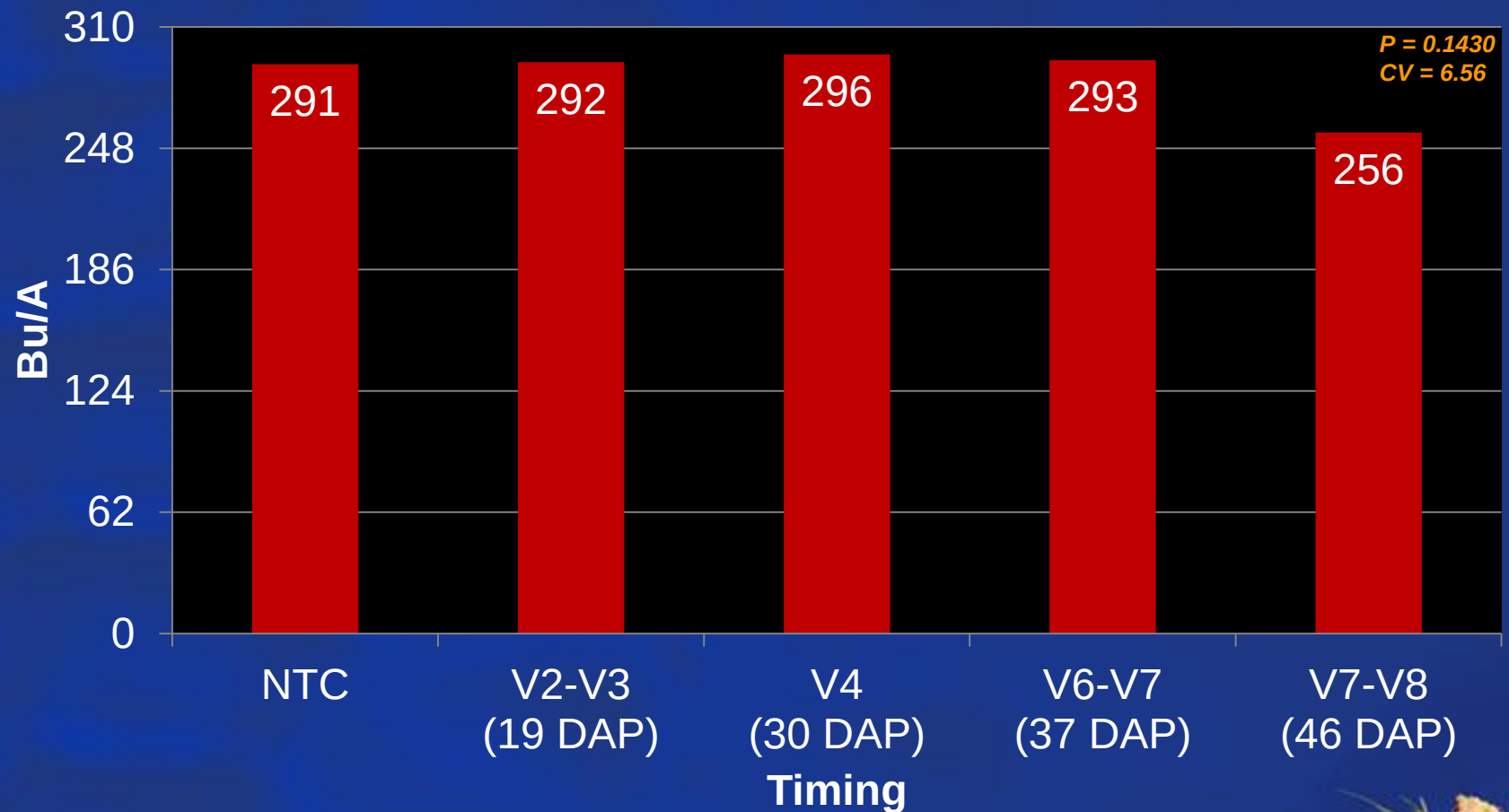




Figure 5. Roundup W-Max (32 oz/A) + Atrazine (48 oz/A) + AMS Xtra (2.5% v/v) Timing Effects on Field Corn Ear #/A in a High Input Environment

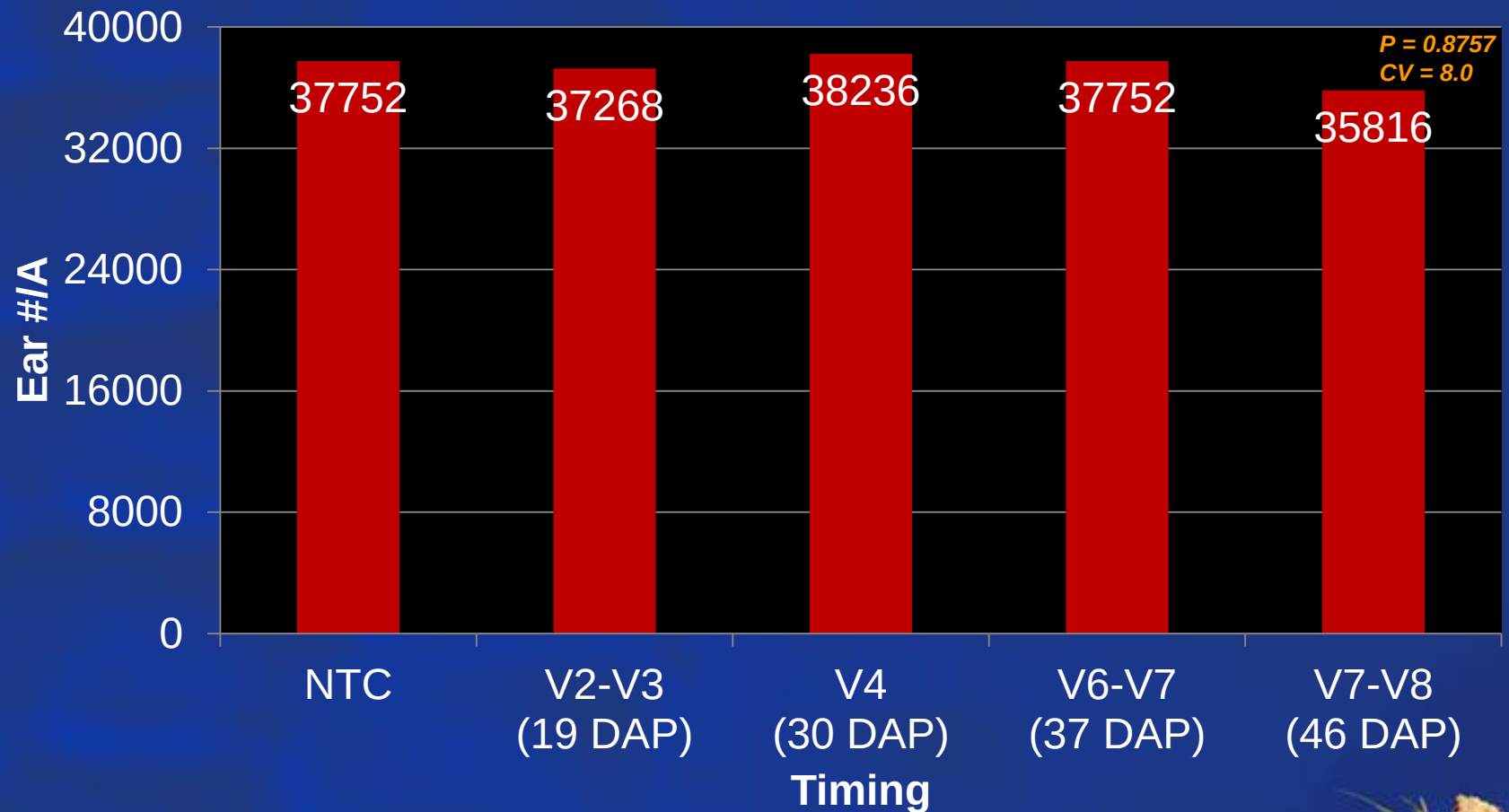
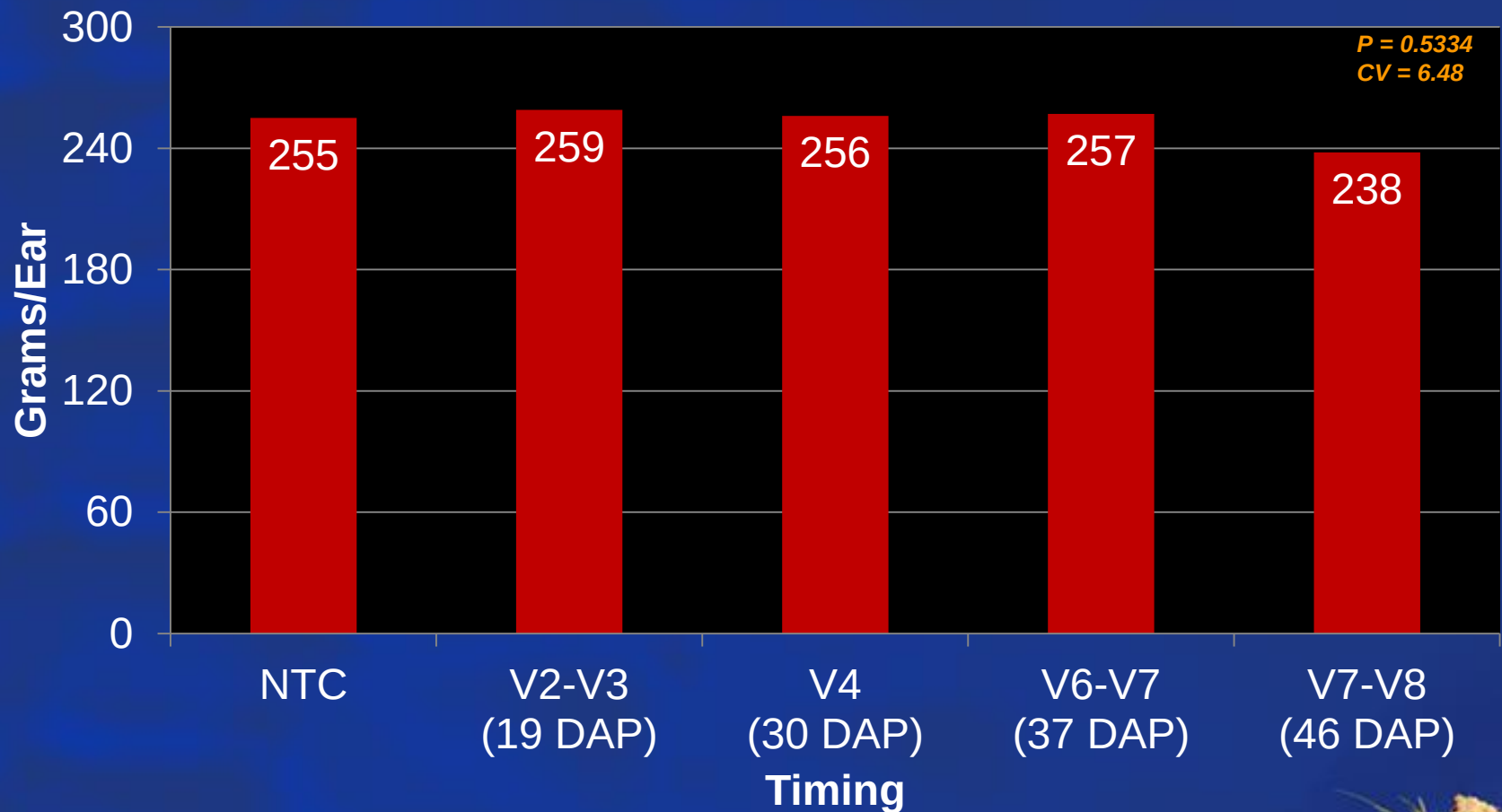




Figure 6. Roundup W-Max (32 oz/A) + Atrazine (48 oz/A) + AMS Xtra (2.5% v/v) Timing Effects on Field Corn Ear Weight in a High Input Environment



Summary

- No effect of herbicides or timing in high input environment
- Encouraging growers to be done by V5
- But.....
 - *Sandea issues???*
 - *V7-V8 applications*



Acknowledgements



- Randy Dowdy
- Brooks County, GA
- Winner of National Corn Growers Association Yield Contest (Irrigated)
 - 2011 = 352.3 Bu/A (2nd place)
 - 2012 = 372.3 Bu/A (1st Place)
 - 2013 = 405.1 Bu/A (2nd Place)
 - **2014 = 503.7 Bu/A (1st Place)**

Question/Comments

eprostk@uga.edu
www.gaweed.com

