

# 2019 Post Weed Control Trials

Supported with  
United Sorghum Checkoff Funds  
Brent Bean, Director of Agronomy



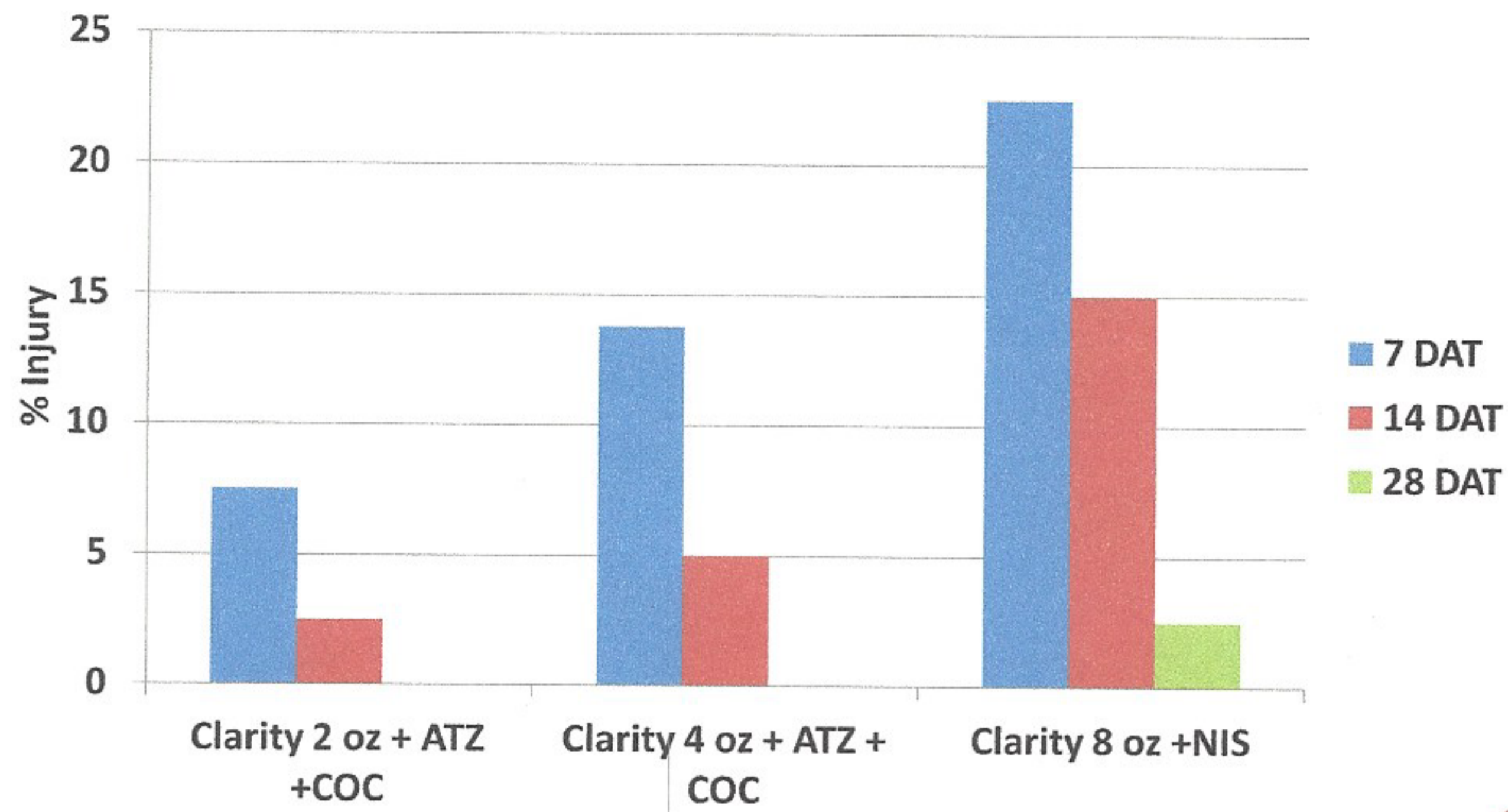
## 2019 Trial Locations and Cooperators

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- Lubbock, TX, TAMU Research
  - Dr. Wayne Keeling
- Bushland, TX, TAMU Research and Extension
  - Dr. Jourdan Bell
- Hays, KS, KSU Research
  - Dr. Vipin Kumar



# Dicamba Injury to Sorghum, Lubbock, TX



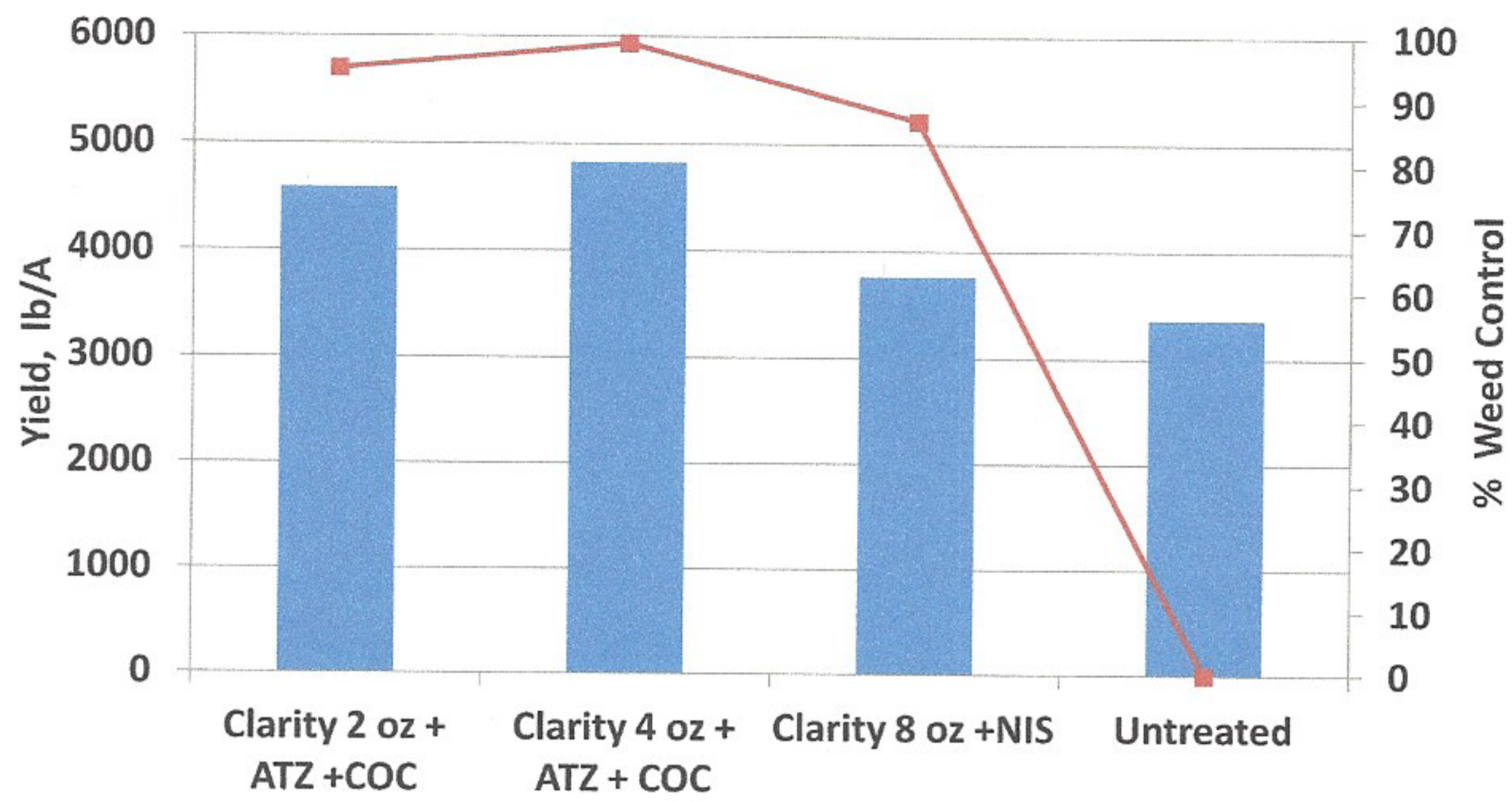
AMS Approved

Lubbock, Keeling 2019



Rate matters with dicamba injury.

## Dicamba Injury to Sorghum – Yield and Pigweed Control. Lubbock, TX



AMS Approved

Lubbock, Keeling 2019



Weed control is after 71 days. Weed control was good with all treatments. Yield reduction likely due to Clarity injury using the 8 oz rate.

## Clarity 8 oz + NIS Lubbock, TX

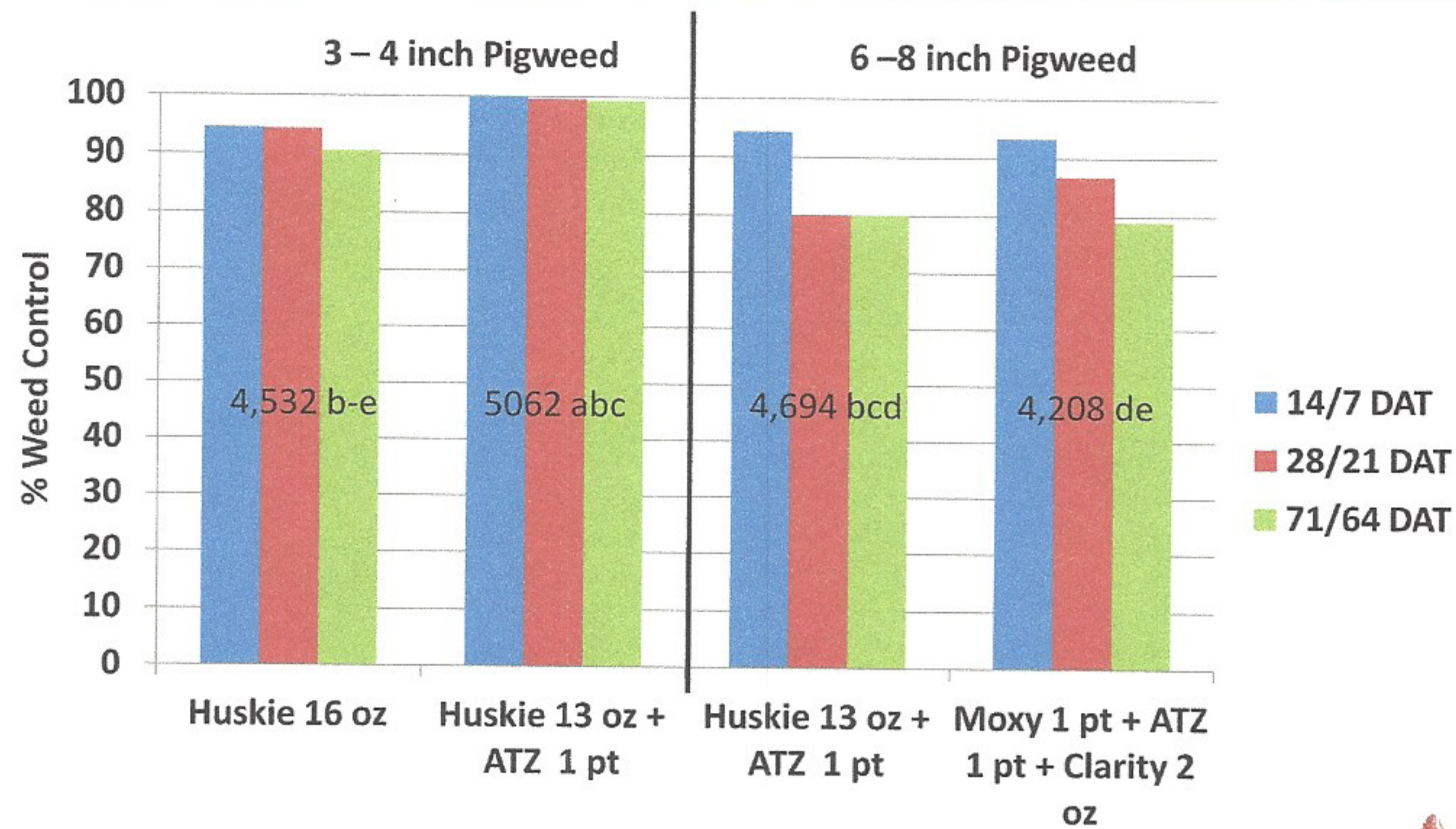
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**SORGHUM** THE SMART CHOICE

Some rolling and leaning of tillers. Weed control was good. Picture taken 2 weeks after treatment application where injury was rated at 15%.

# Huskie Pigweed Control Lubbock TX



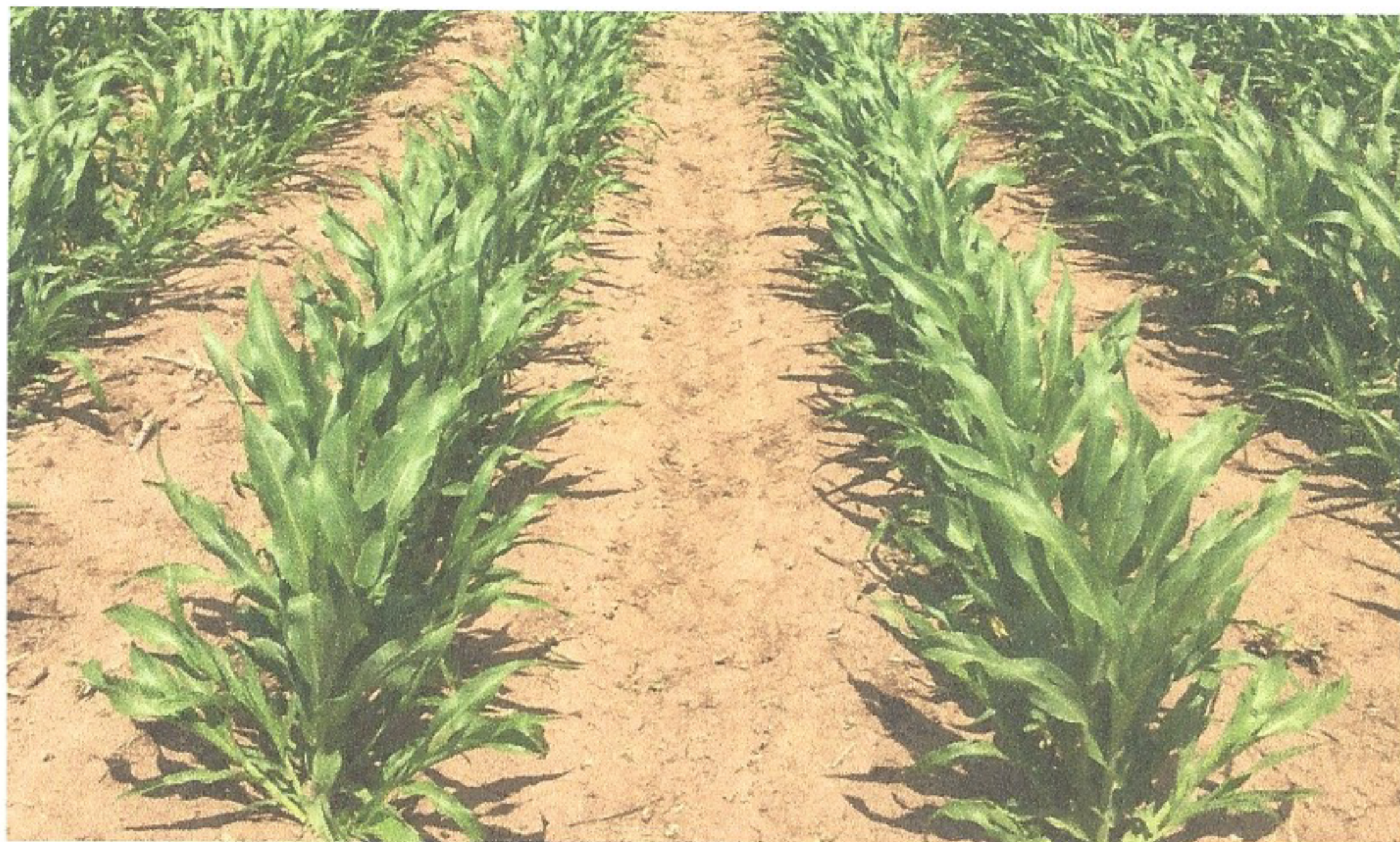
AMS Approved

All Huskie treatments applied is AMS and NIS



Better control with Huskie on smaller weeds. Adding atrazine to mix helps.  
 Moxy+atz+clarity gave similar control on bigger weeds in the study.  
 No injury observed with any Huskie treatments even at 7 DAT  
 Best yields were with Pre treatments at around 5400 lb/A  
 DAT differ depending on weed size when the applications were made.

# Atrazine – 1 qt + COC, Post, Lubbock, TX



**SORGHUM**  THE SMART CHOICE

## Bushland, TX, Post Treatments, 2019

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- Very heavy weed population in this trial





# Bushland, TAMU Post Trial 2019

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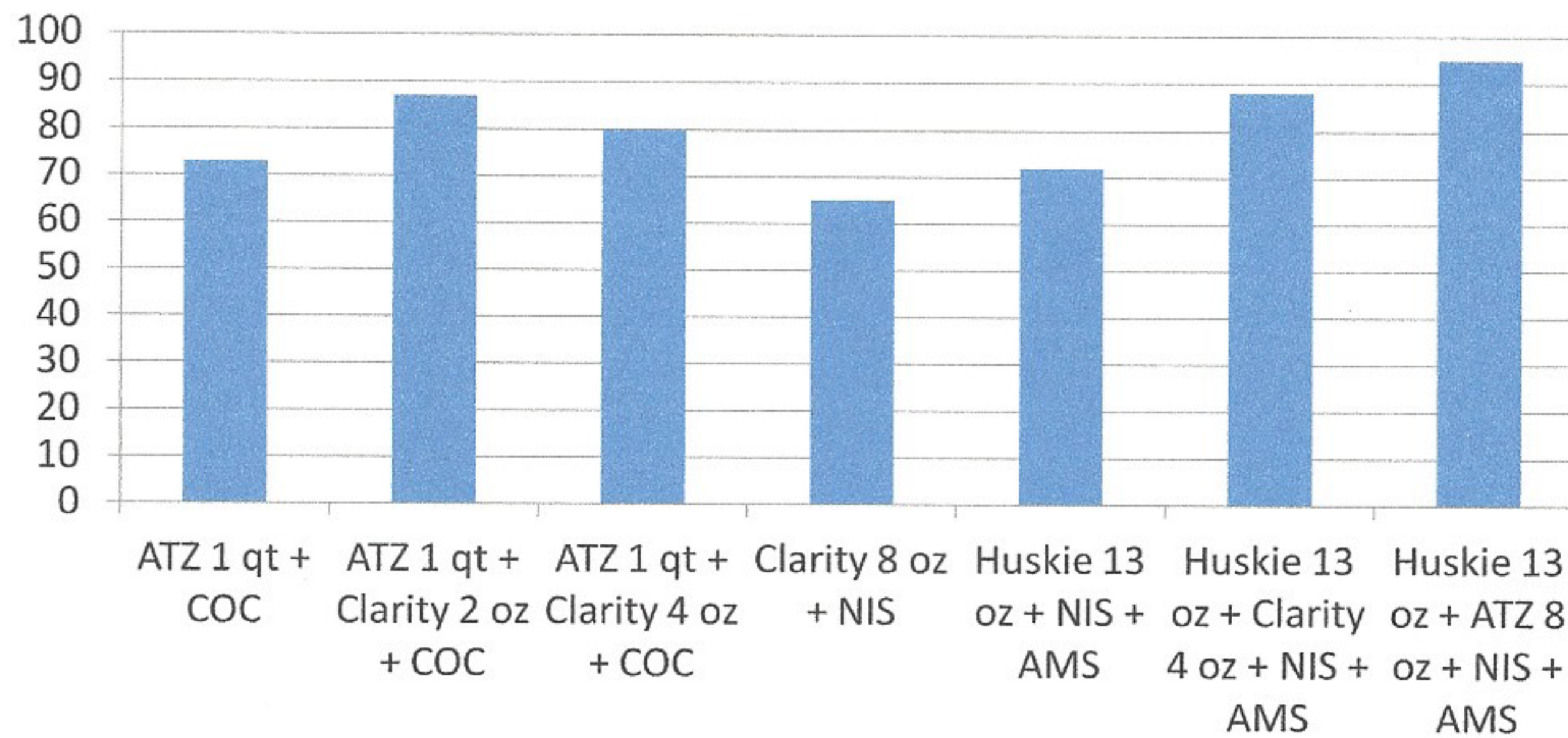
AMS Approved

Source: TAMU Bell



# Post Pigweed Control, Bushland TX

50 Days After Planting, 35 days after Application  
Weed Size = 3-4 inches



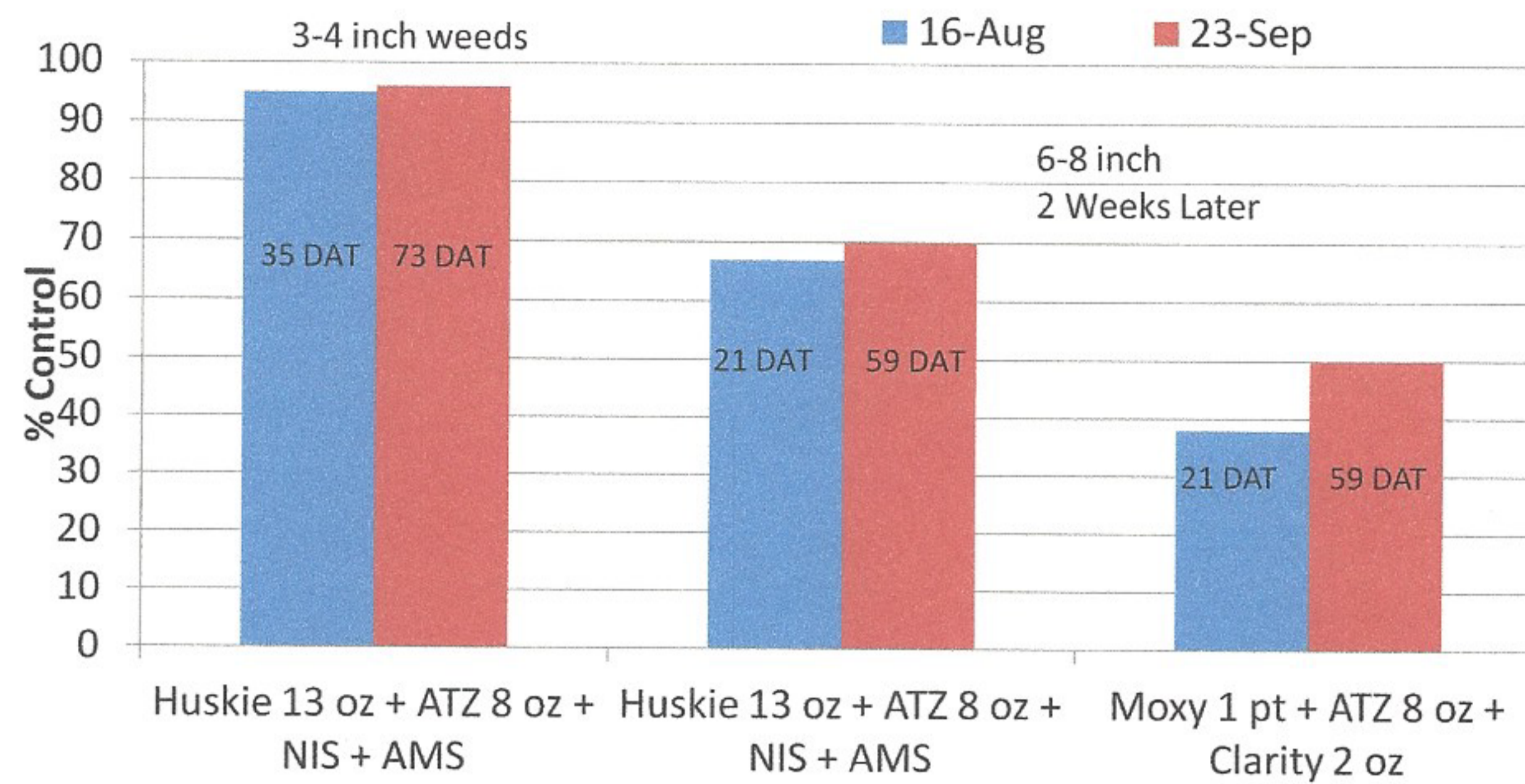
AMS Approved

Source: Bell, TAMU



Atrazine benefits from a little Clarity. 2 oz of Clarity is sufficient to increase control but not enough to cause crop injury if applied at the right time.  
Always best to add 8 oz to a pint of atrazine to Huskie for improved control.

# Post Pigweed Control, Bushland TX



AMS Approved

Source: Bell, TAMU



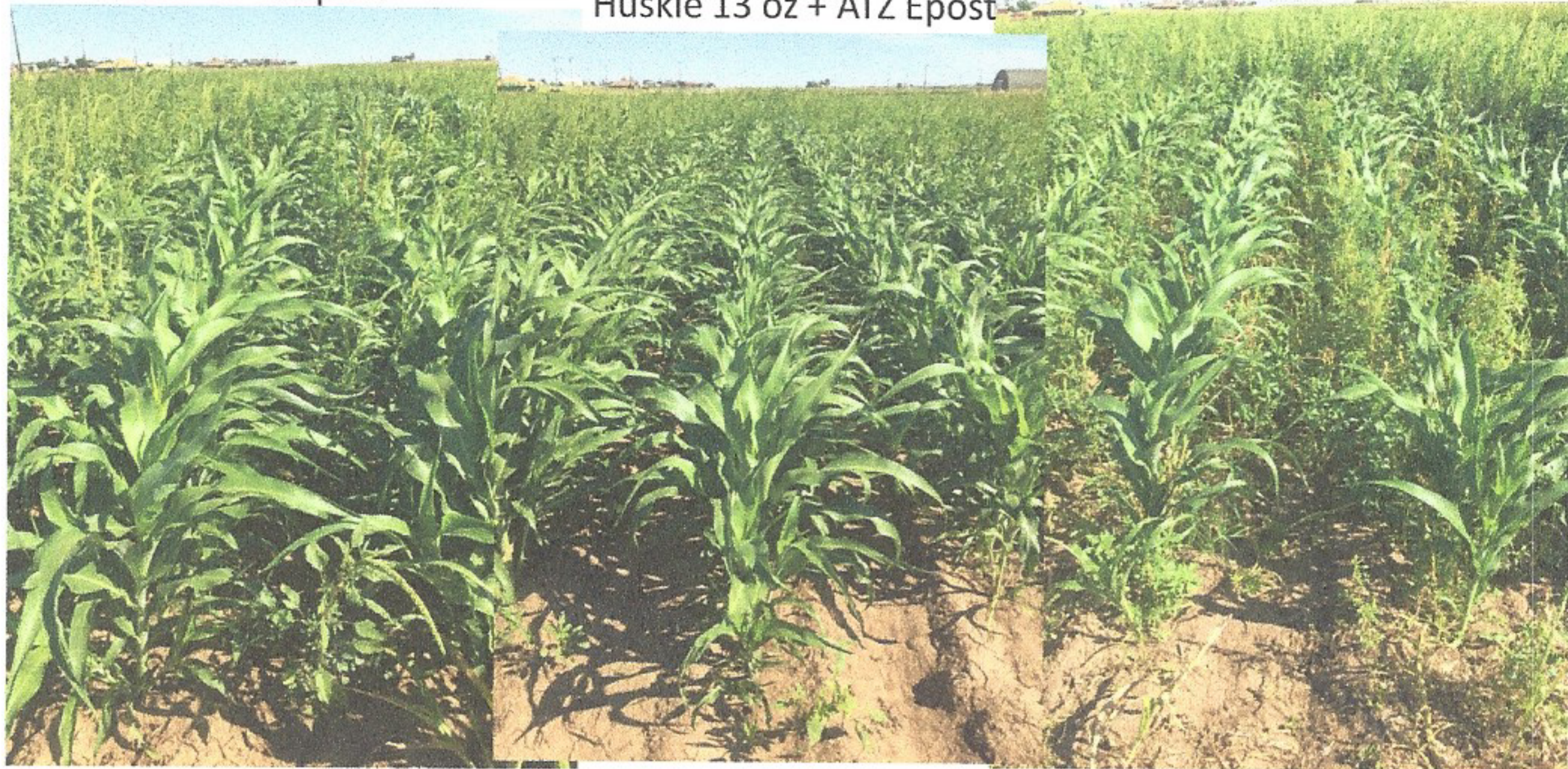
Timing matters. Better control on the 3-4 inch weeds compared to 6-8 inch weeds. The Moxy+atrazine+Clarity treatment needed to have the rates increased in this very dense pigweed population that was probably stressed. Much better control with this treatment at the Lubbock location.

# Huskie Treatments – Bushland TX

Huskie 13 oz Epost

Huskie 13 oz + ATZ Epost

Huskie 13 oz + ATZ Lpost



## Lpost: Huskie vs Moxy+ATZ+Clarity, Bushland, TX

Huskie 13 oz + ATZ - Lpost



Moxy + ATZ + Clarity Lpost



Pictures taken August 16, 2019

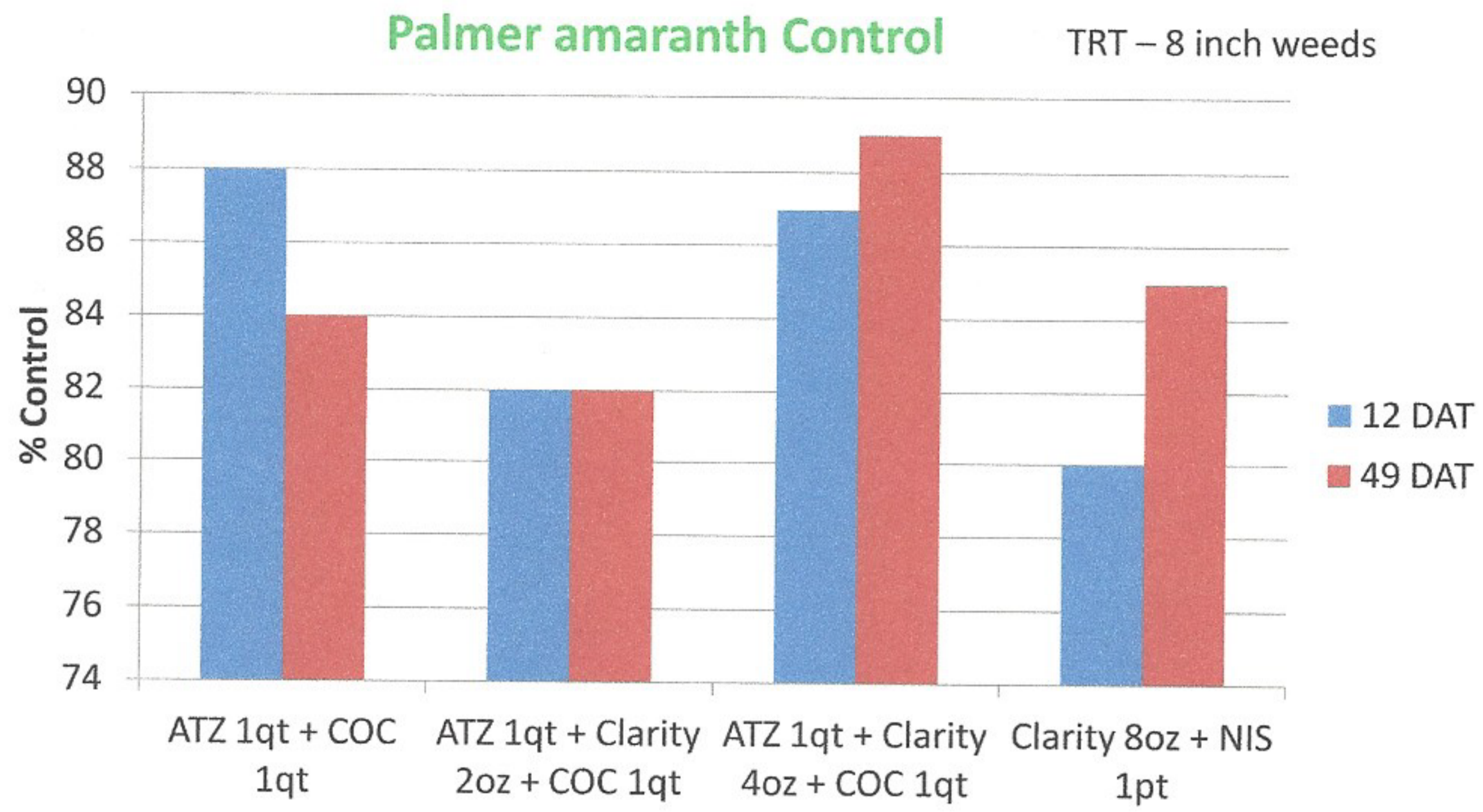
## Post Emergence Weed Control Trial, Hays, KS

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- Palmer Amaranth
- Puncture Vine



# Post Treatment Control – Hays, KS

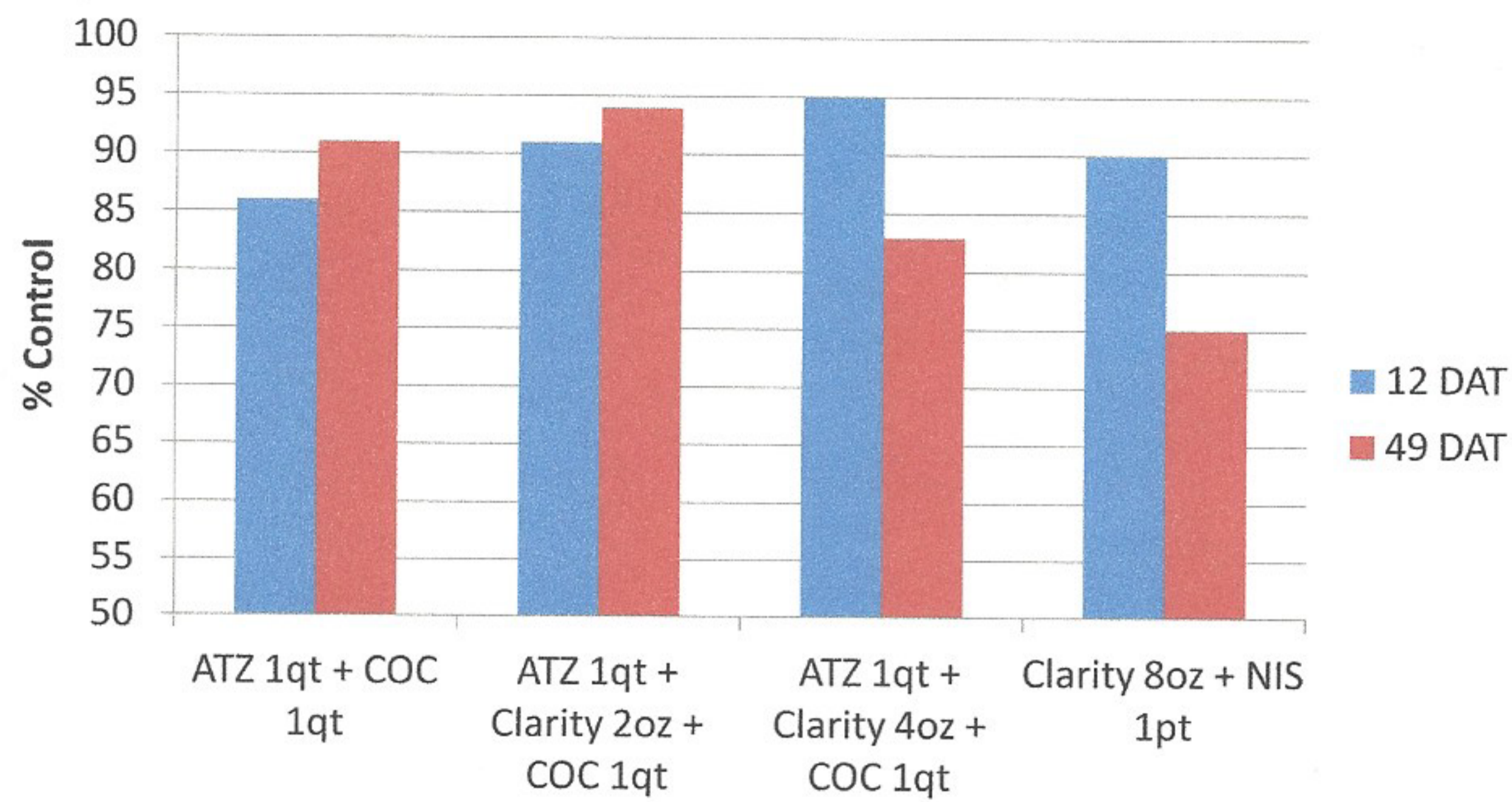


Kumar, KSU, 2019



Control was similar with all treatments. Maybe a little better with the 4 oz Clarity added to ATZ

## Post Treatment Puncture Vine Control – Hays, KS



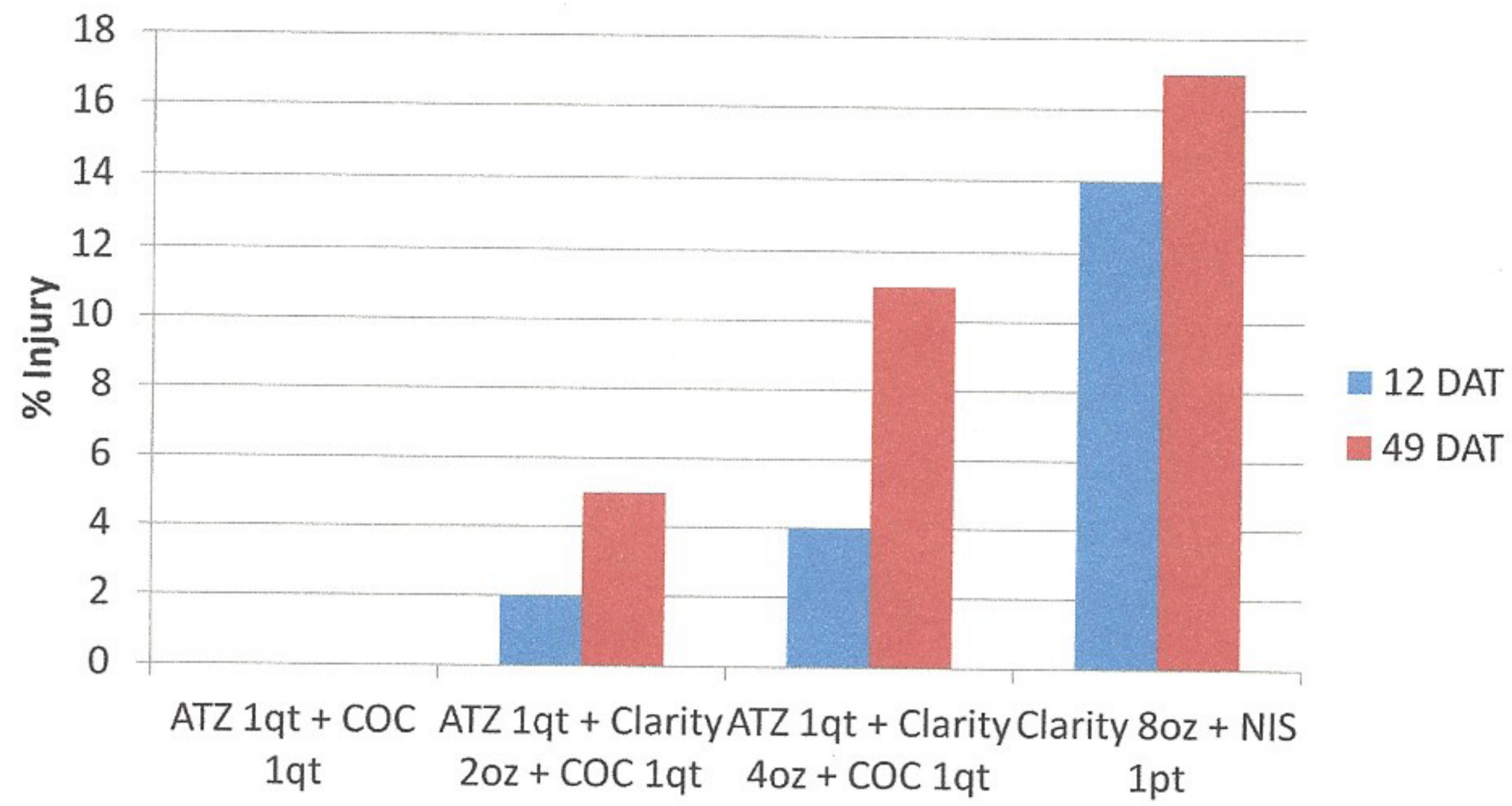
Kumar, KSU, 2019



Difficult to say if dicamba was better than ATZ alone. Clarity at 8 oz not as good.



## Post Treatment Crop Injury – Hays, KS

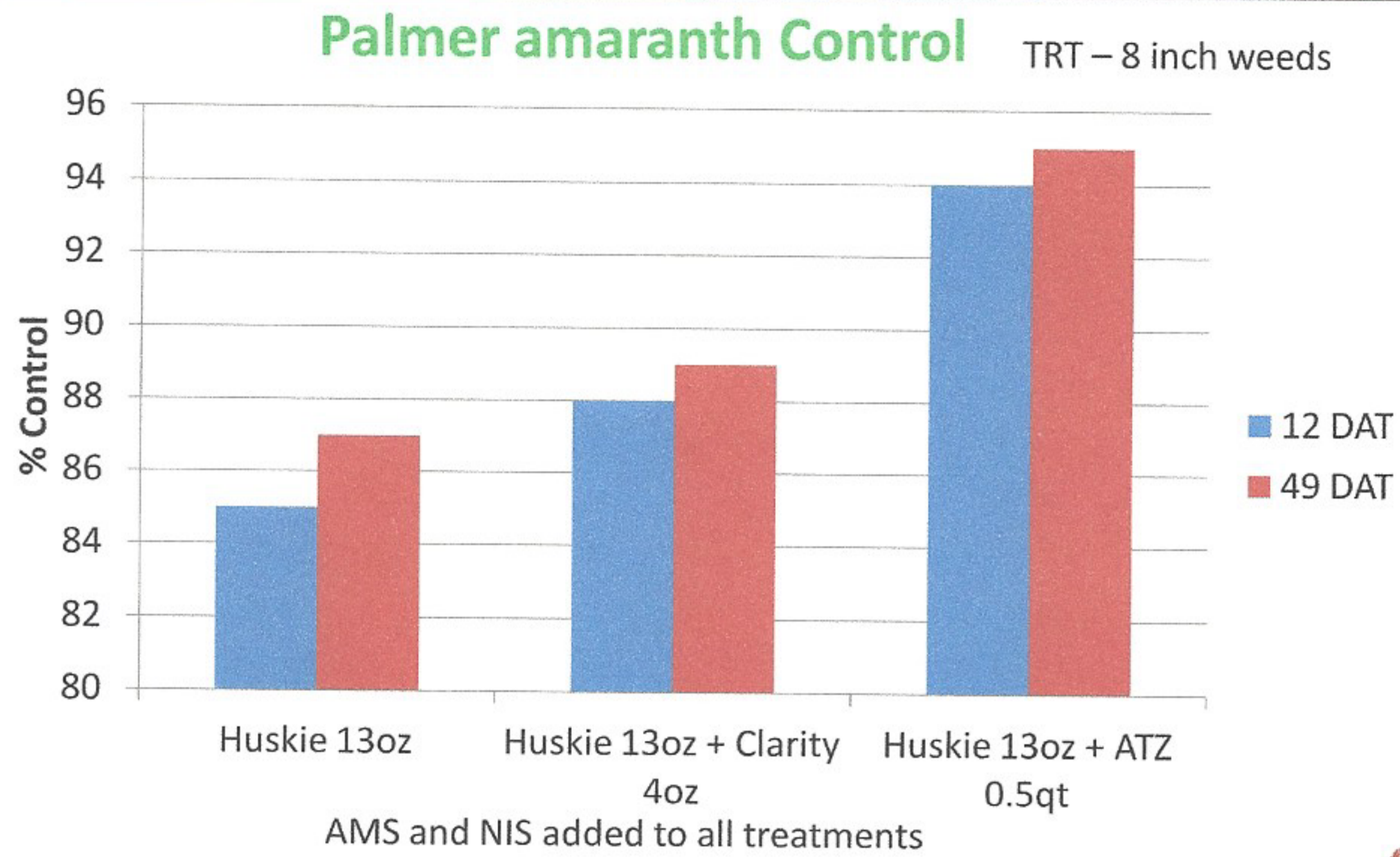


Kumar, KSU, 2019



Yield was lowest with Clarity at 8 oz but not significant from atrazine alone treatment.

## Post Treatment Control – Hays, KS

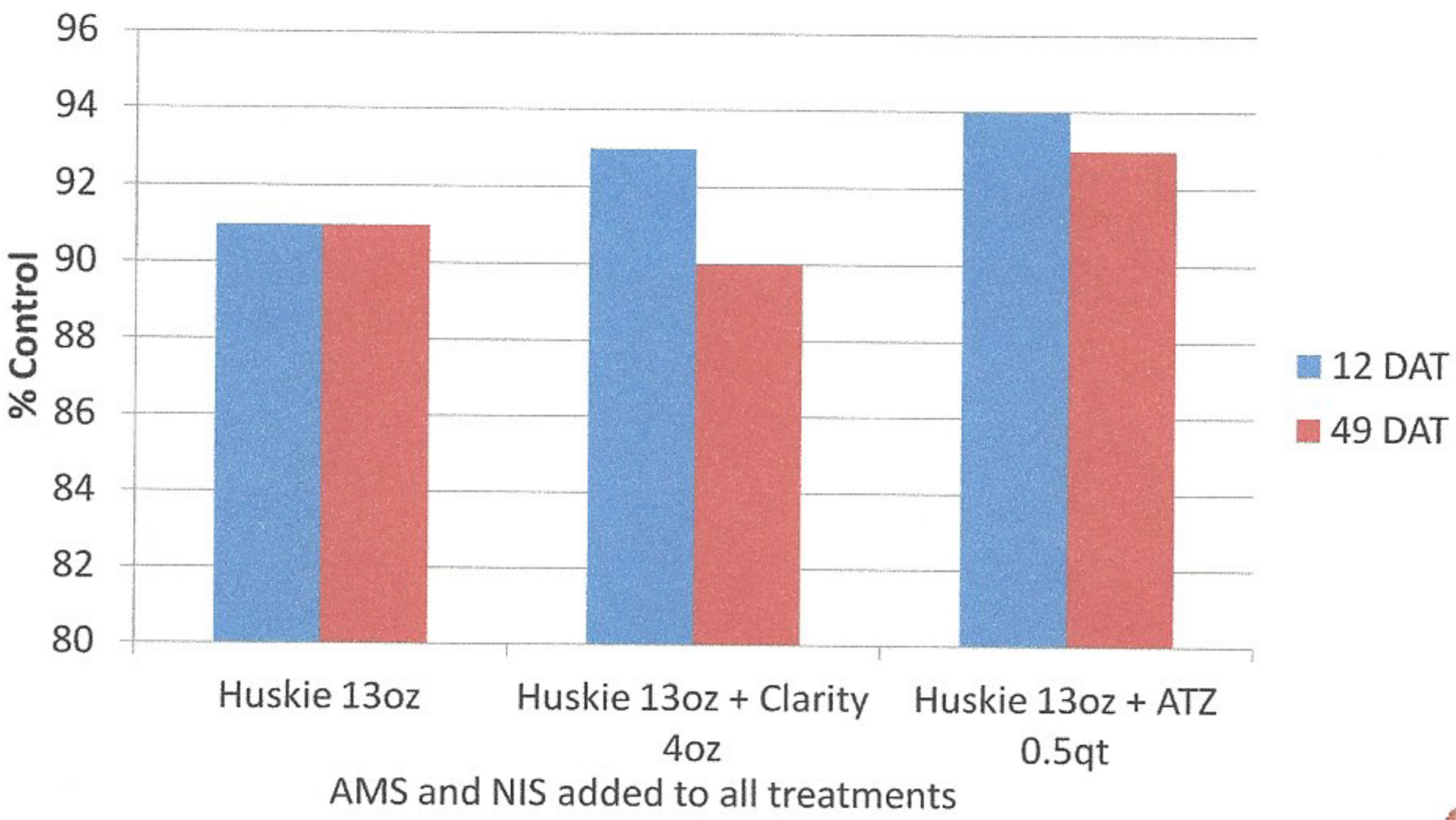


Kumar, KSU, 2019



As in other trials, the addition of a pint of atrazine improves control. Only crop injury recorded was with the addition of Clarity at 7%.

# Post Treatment Puncture Vine Control – Hays, KS



AMS and NIS added to all treatments

Kumar, KSU, 2019



## Post Treatment Conclusions From 2019 (Brent Bean)

- Clarity application at the full rate can cause enough injury to reduce yield.
- 2 to 4 oz of Clarity added to other treatments is generally safe on sorghum.
- Huskie benefits from the addition of a little atrazine. Weed size matters.
- Moxy+atrazine+dicamba is a good option to Huskie but rates may need to be increased to control large and stress weeds.
- Atrazine + crop oil can be a good treatment on smaller weeds. Add 2 oz of Clarity on larger weeds.

