

GRAIN SORGHUM WEED CONTROL UPDATE - 2021

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Grain Sorghum Weed Control

- 1) Start clean!
- 2) **Concep** treated seed
- 3) Dual Magnum or Outlook 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

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)



Grain Sorghum Weed Control – 2020



NTC

Outlook 6EC @ 12.8 oz/A (PRE)

Huskie 2.06EC @ 16 oz/A (20 DAP)

Atrazine 4L @ 16 oz/A (20 DAP)

AMS @ 1% v/v (20 DAP)

Induce @ 0.25% v/v (20 DAP)

NTC

Huskie Injury – 7 DAT



GS-02-20
June 9

Huskie @ 16 oz/A + Atrazine @ 16 oz/A
+ AMS @ 1% v/v + Induce @ 0.25% v/v



June 9
7 DAT



June 15
13 DAT

Huskie Injury on Sorghum



Huskie Tank-Mixes in Grain Sorghum - 2020



Huskie @ 16 oz/A +
Atrazine @ 16 oz/A +
AMS @ 1% v/v +
Induce @ 0.25% v/v



Huskie @ 16 oz/A +
Atrazine @ 16 oz/A +
Warrant @ 48 oz/A +
AMS @ 1% v/v +
Induce 0.25% v/v



Huskie @ 16 oz/A +
Atrazine @ 16 oz/A +
Dual Magnum @ 16 oz/A +
AMS @ 1% v/v +
Induce 0.25% v/v

Other Sorghum Options

- Inzen™ Z?
 - *Zest (nicosulfuron)*
- Sandea/Permit
 - *nutsedge*
- Prowl??
 - *TX panicum*
- Auxin Herbicides
 - 2,4-D or Dicamba
 - Rate
 - Weed size
 - Injury
 - Off-target movement



Inzen™ Z Grain Sorghum

- Kansas State Univ.
- DuPont/Corteva
- Resistance to POST applications of ALS herbicides
 - Zest (nicosulfuron)
- Non-GMO
 - *Gene from wild genotype of sorghum*
- Varieties for GA?
 - 2022
- Stewardship!



Inzen™ Cultivar (left row)
Conventional Cultivar (right row - dead)
Ponder Farm 2012

Grain Sorghum

Atrazine + Prowl + Agridex

Applied June 2 (20 DAP)



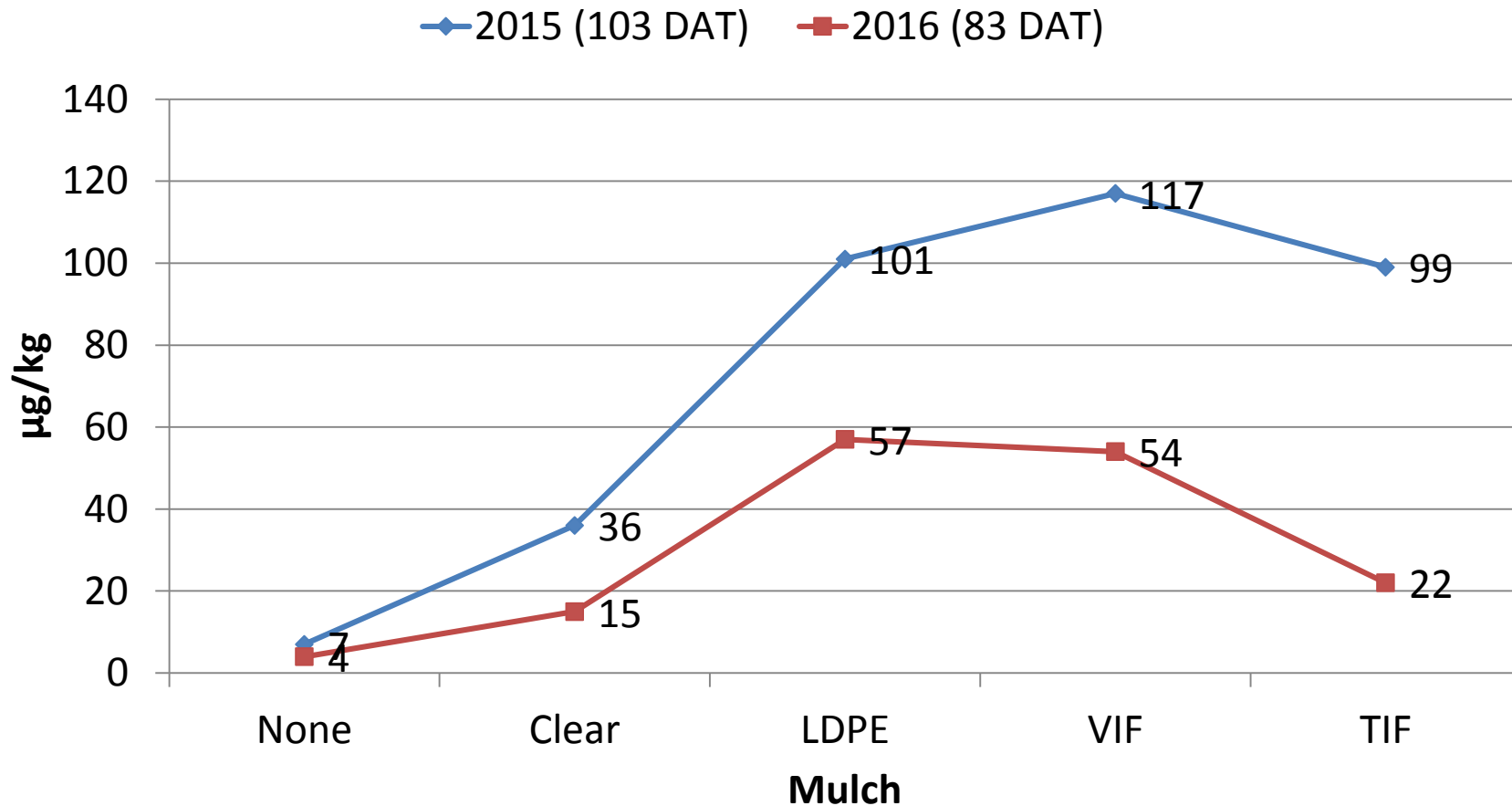
GS-02-20
June 23
21 DAT

Grain Sorghum After Reflex? (10 month rotation restriction)



****Average ½-life in south GA soils was 80 to 128 days (~100 days)
Potter et al. 2016. J. Agric. Food Chem. 64:5156-5163**

Reflex Concentrations in Soil After PRE Applications Under Assorted Mulches



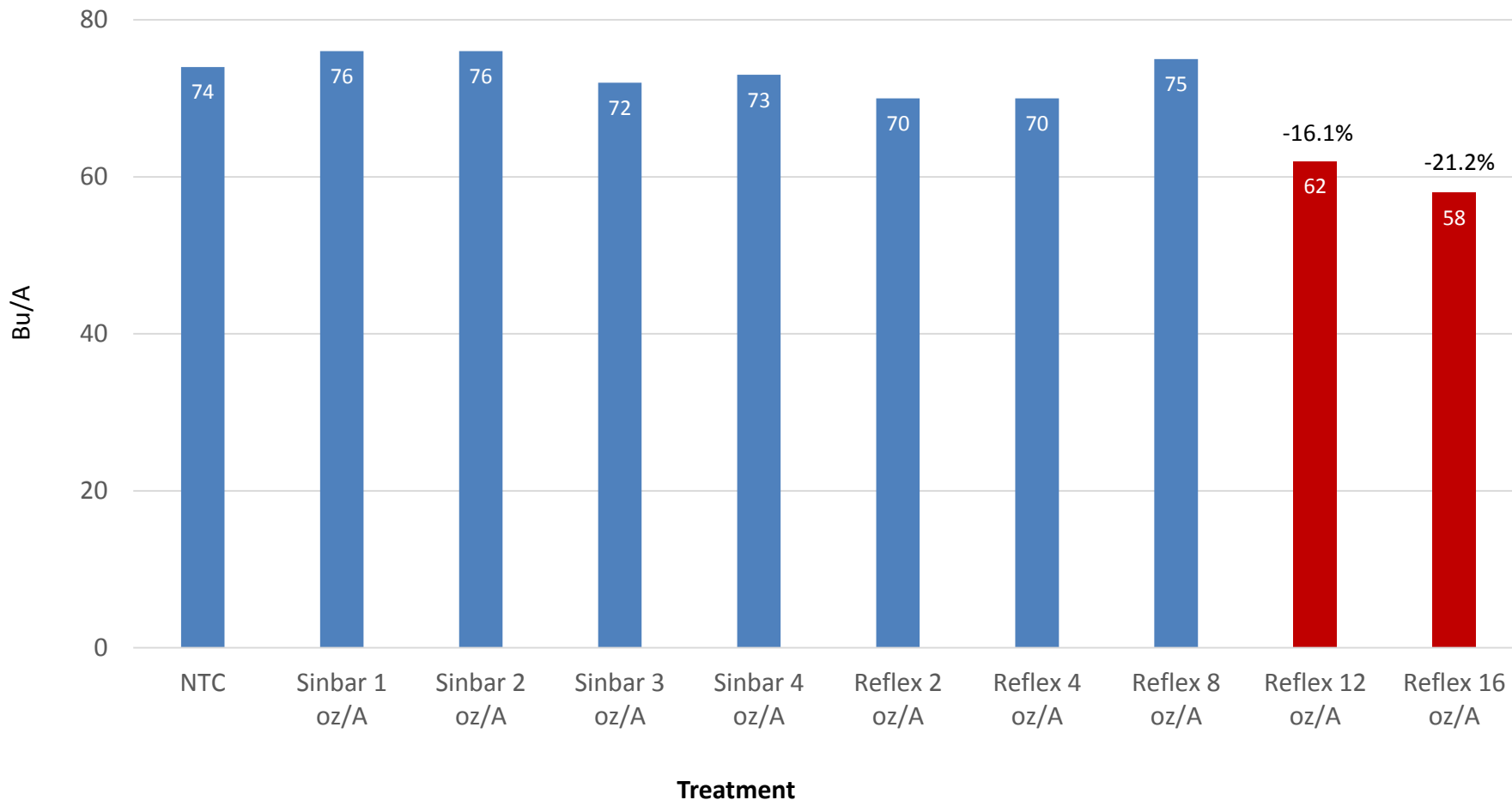
**Myakka sand (1% OM, 6.8 pH; 95% sand, 4% silt, 1% clay); Reflex concentration at application was 139-176 µg/kg
Source: Reed et al. 2017. Weed Science (FL)*

Reflex 2SL @ 12 oz/A Injury on Sorghum Applied 94 DBP

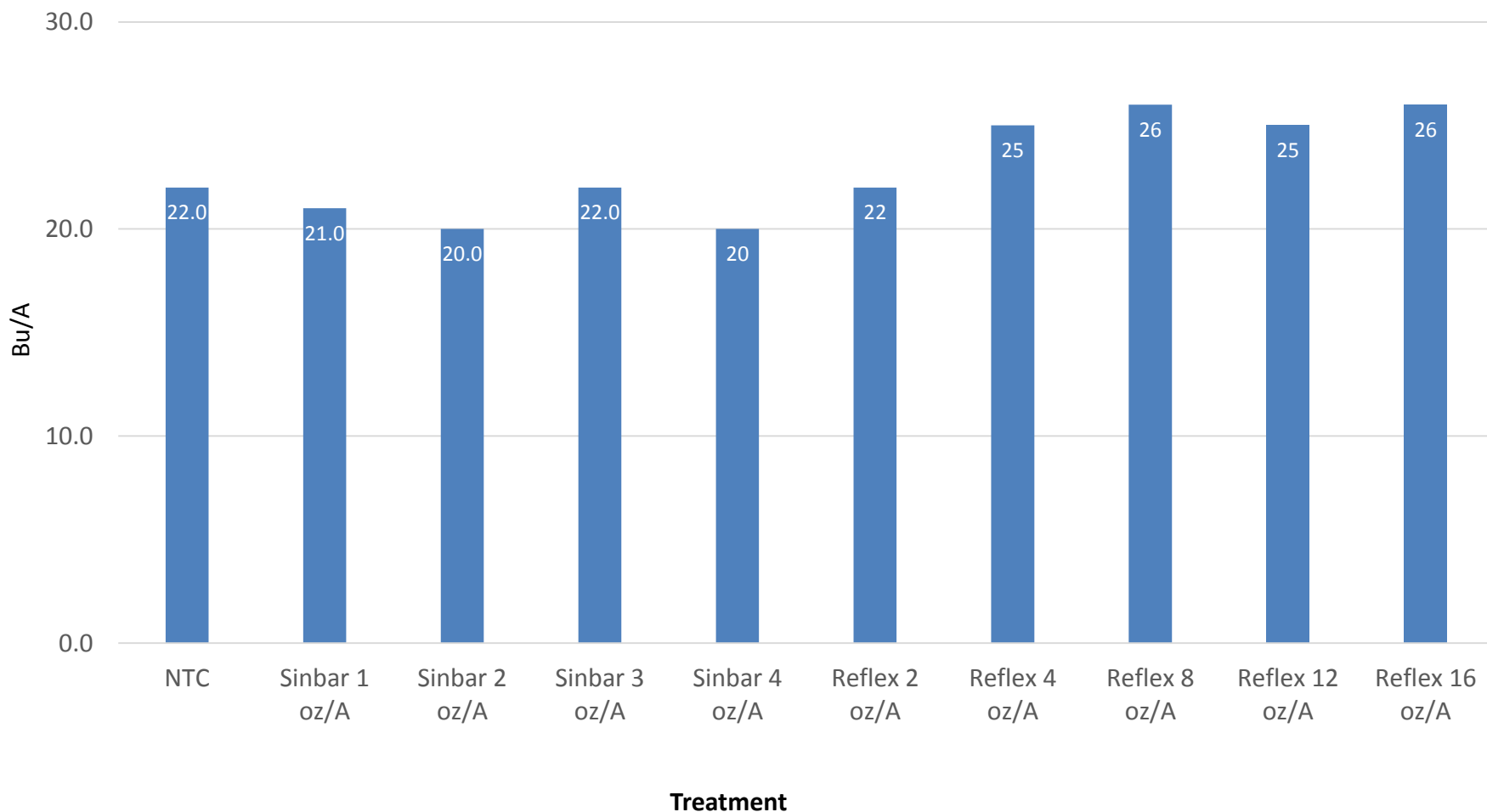


GS-01-20
August 11
Plot #207
21 DAP

Grain Sorghum Yield Following Herbicides Applied to Bare-Ground - 90 DBP - 2019



Grain Sorghum Yield Following Herbicides Applied to Bare-Ground - 94 DBP - 2020



2020 Grain Sorghum Problem

Anthracnose



Ratoon Grain Sorghum Demo – 2018

July 27 – 1 DAT



Gramoxone @ 3 pts/A + Dual Magnum @ 16 oz/A
(Applied 2 days after mowing stalks to ~4'-8" tall)

Ratoon Grain Sorghum Demo – 2018

August 14 - 19 DAT



Gramoxone @ 3 pts/A + Dual Magnum @ 16 oz/A

Ratoon Grain Sorghum Demo – 2018

September 4 - 40 DAT



Gramoxone @ 3 pts/A + Dual Magnum @ 16 oz/A

Questions/Comments?
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