

Rice Weed Management: Mississippi State University Row Crops Short Course



Connor Webster, LSU AgCenter

Rice Acres

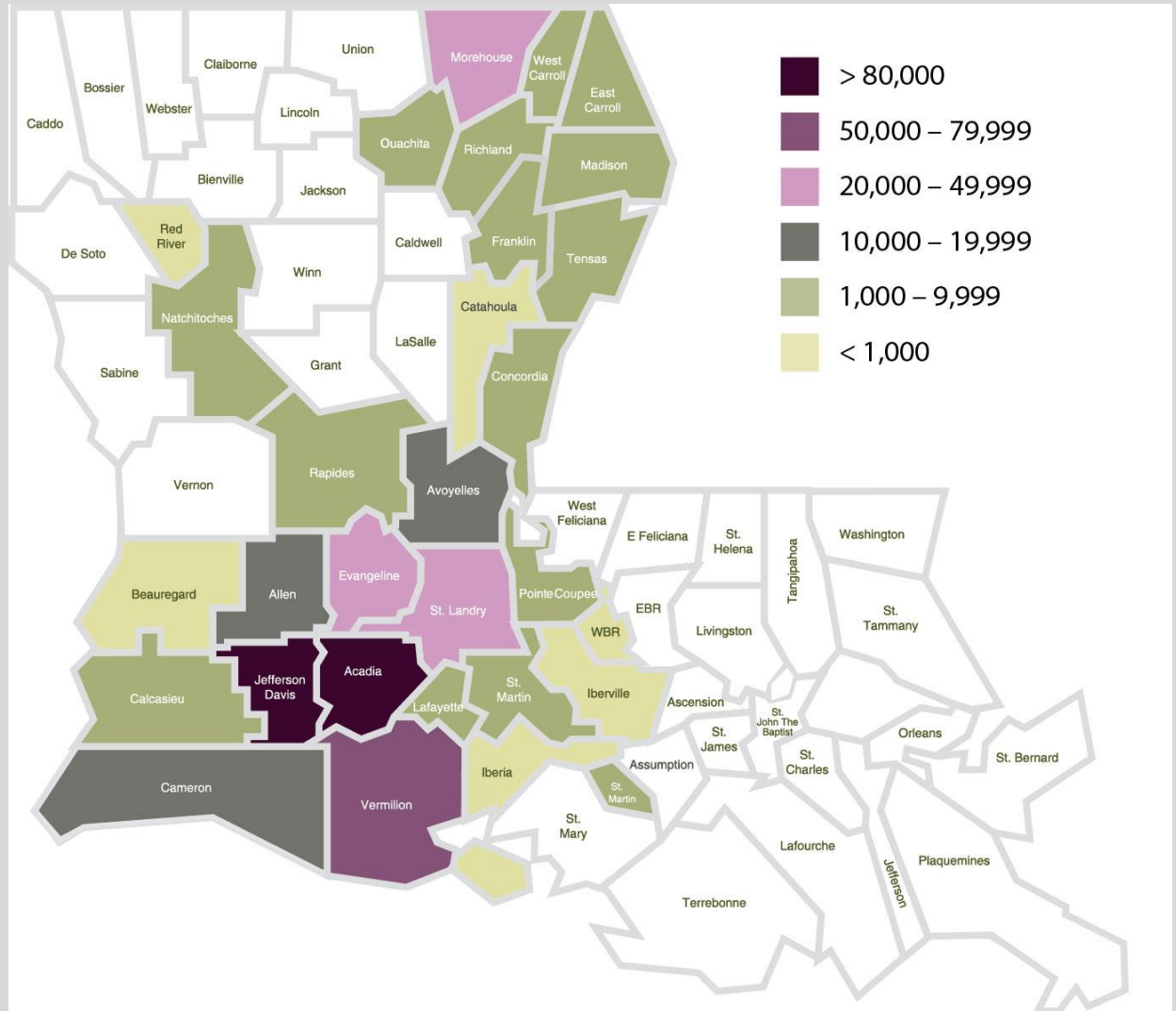
Acreage:

2021: 411,690

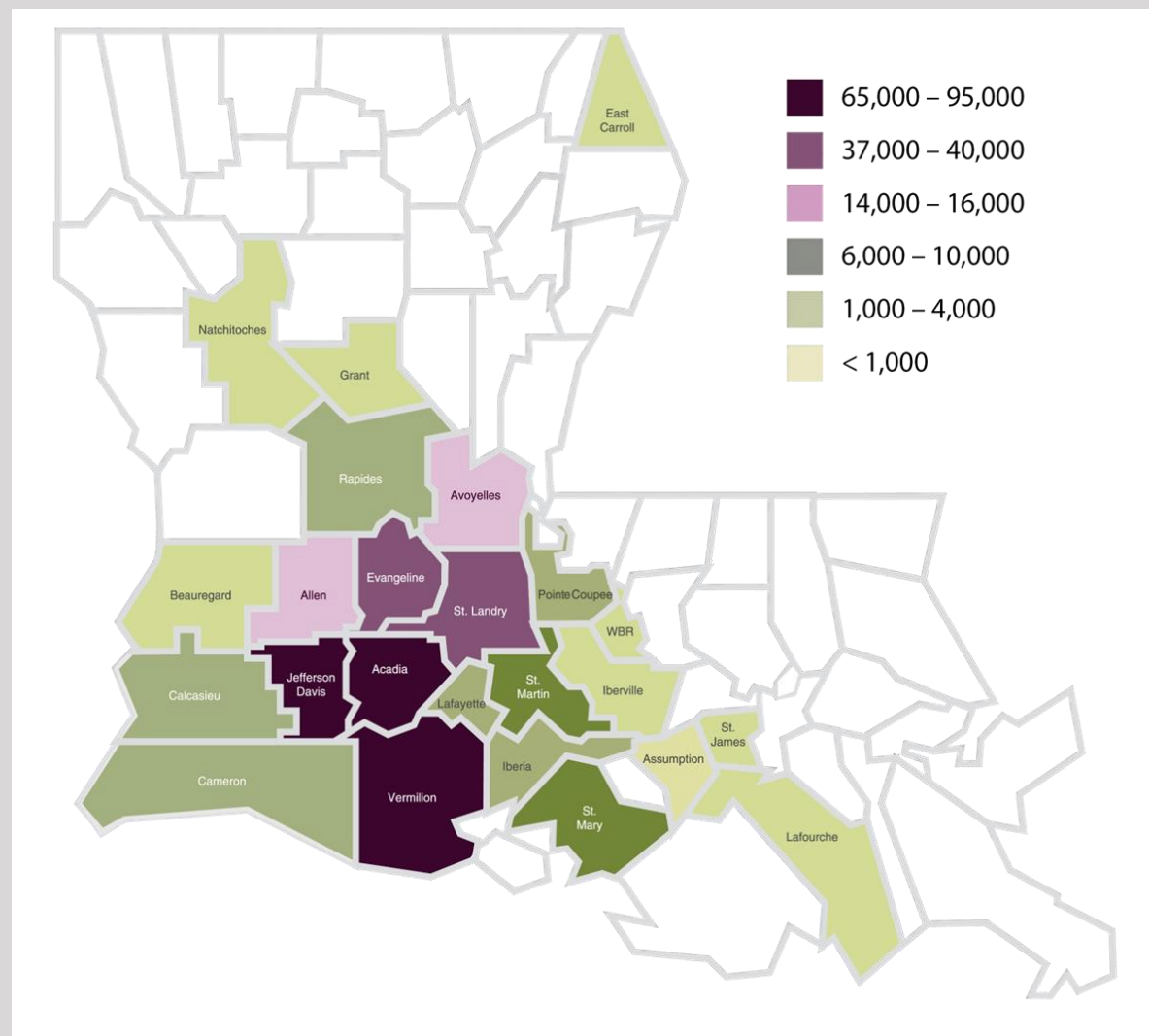
2022: 415,556

2023: 461,371

2024: 459,690



Crawfish Acres



**24-25 Projected Acres:
400,000**

Rotation and Tillage



Brook paspalum



Perennial barnyardgrass



rice cutgrass



knotgrass



southern watergrass





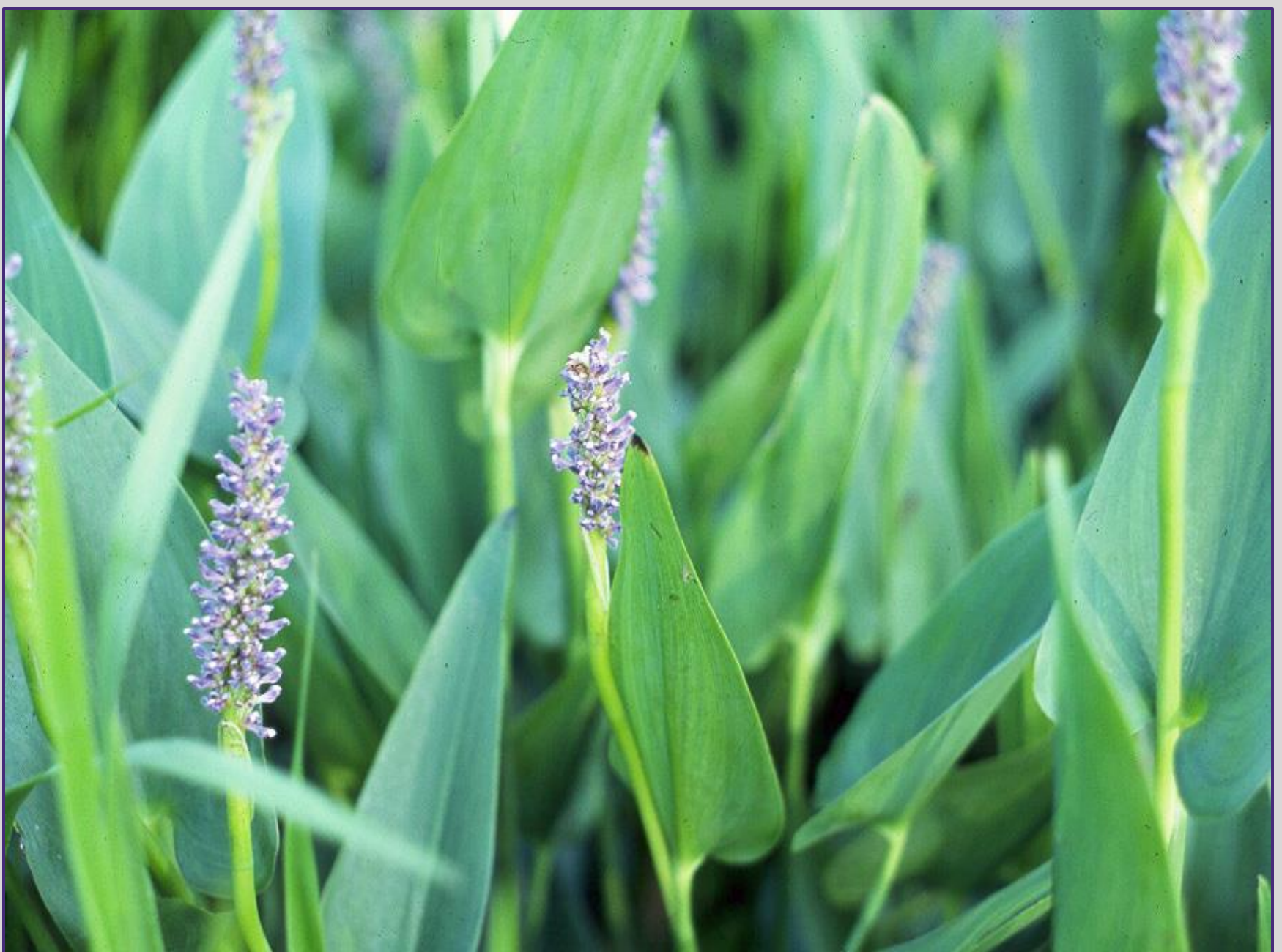
alligatorweed



common arrowhead



grassy arrowhead



pickerelweed



creeping burhead



ducksalad

Loyant Impregnation on Fertilizer

Loyant Impregnation on Fertilizer

- Loyant fits south Louisiana
- Excellent activity on aquatics
- Drift can be an issue
- Must be applied in the water on fertilizer
- Reduction in control can be expected, increase rate by 2 oz

Nontreated



14 DAT



28 DAT



35 DAT



42 DAT



14 DAT



28 DAT



35 DAT



42 DAT

Loyant 16 fl oz/A



14 DAT



28 DAT



35 DAT



42 DAT



Loyant 8 fl oz/A



14 DAT



28 DAT



35 DAT



42 DAT



A New Mode of Action Coming to Rice

Tetflupyrolimet - Dodhylex

- **FMC New mode of action: Dihydroorotate dehydrogenase**
 - First MOA since late 90's – HPPD's
 - Group 28




- **Residual grass product**
 - barnyardgrass, Amazon sprangletop, broadleaf signalgrass

- **Some post activity**

- **3 to 8.6 fl oz/A depending on soil type**

- **Benign to rice and most other crops**

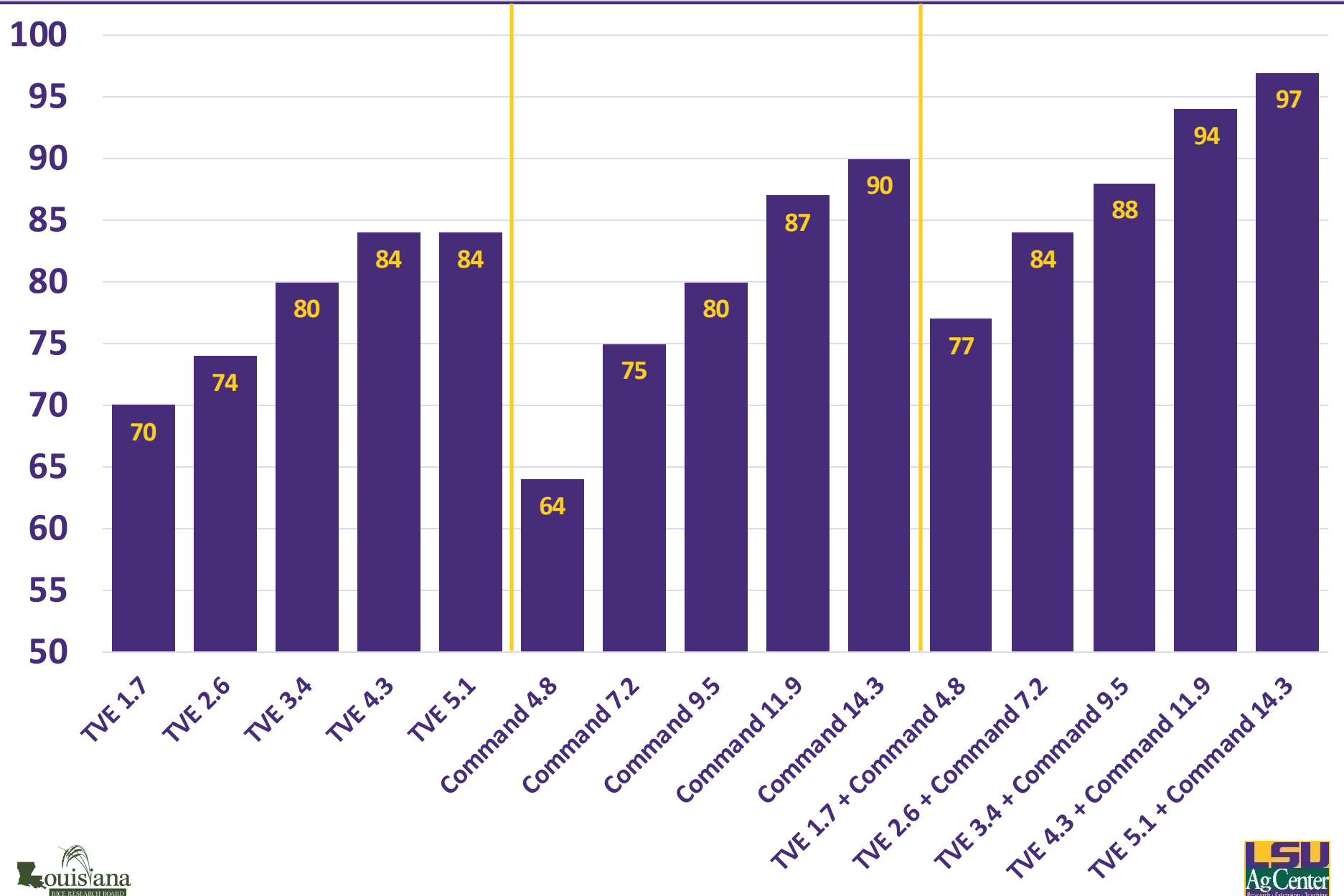
| Dodhylex™ active |  COMMAND 3ME <small>TRICLOPYR-POLYTRICLOPYR</small> | Acres covered by case |
|---------------------|--|--------------------------|
| 4.3 fl. oz/A | 10.75 fl. oz/A | 30A |
| 8.6 fl. oz/A | 21.5 fl. oz/A | 15A |

- **Commercial release as a Co-pack: Likely 2027 growing season**

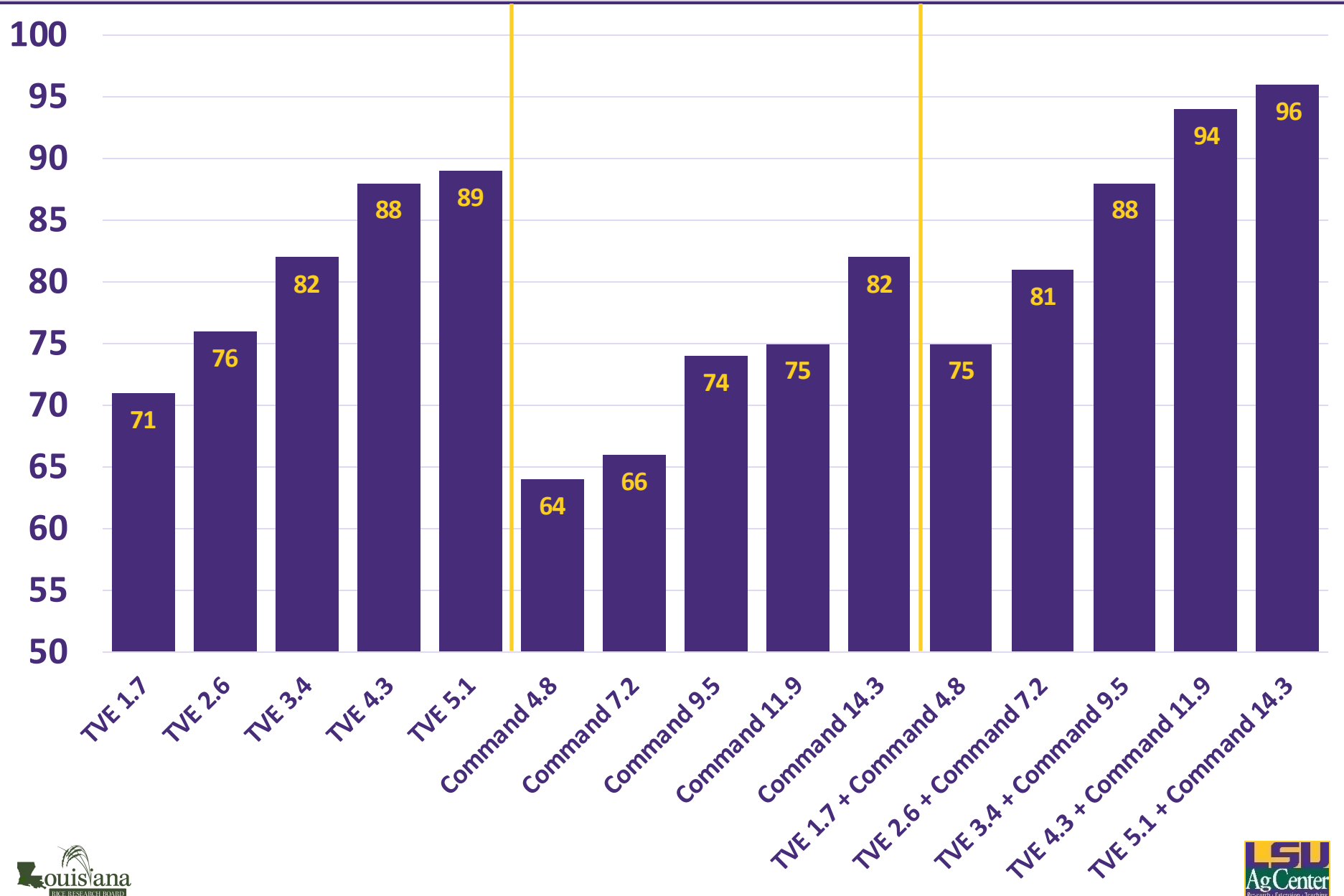
Tetflupyrolimet Rate Studies

Crowley Silt Loam

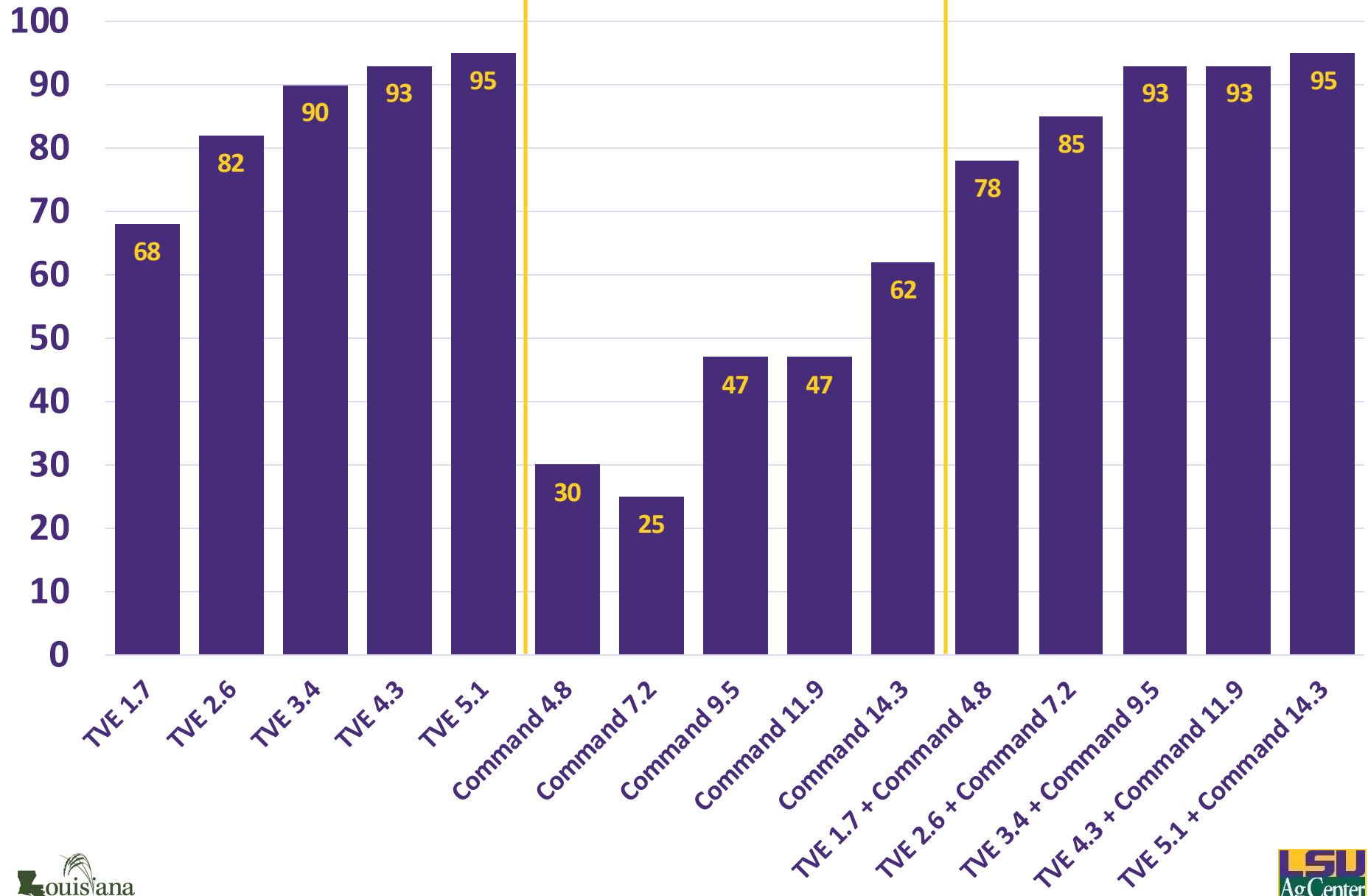
Barnyardgrass 21 DAT



Barnyardgrass 56 DAT



Amazon Sprangletop 65 DAT



Nontreated



Tetflupyrolimet 3 fl oz/A



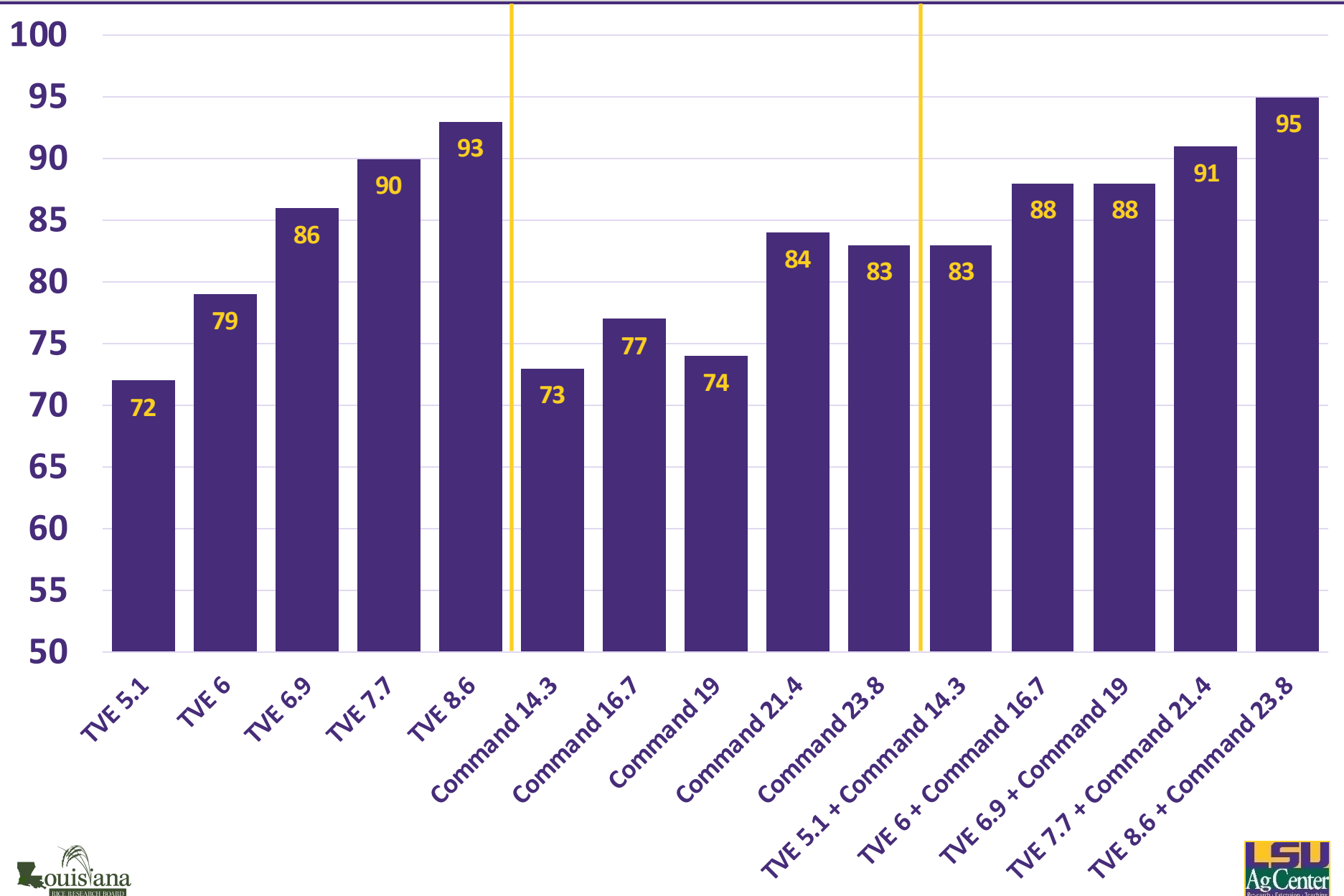
Command 9.5 fl oz/A



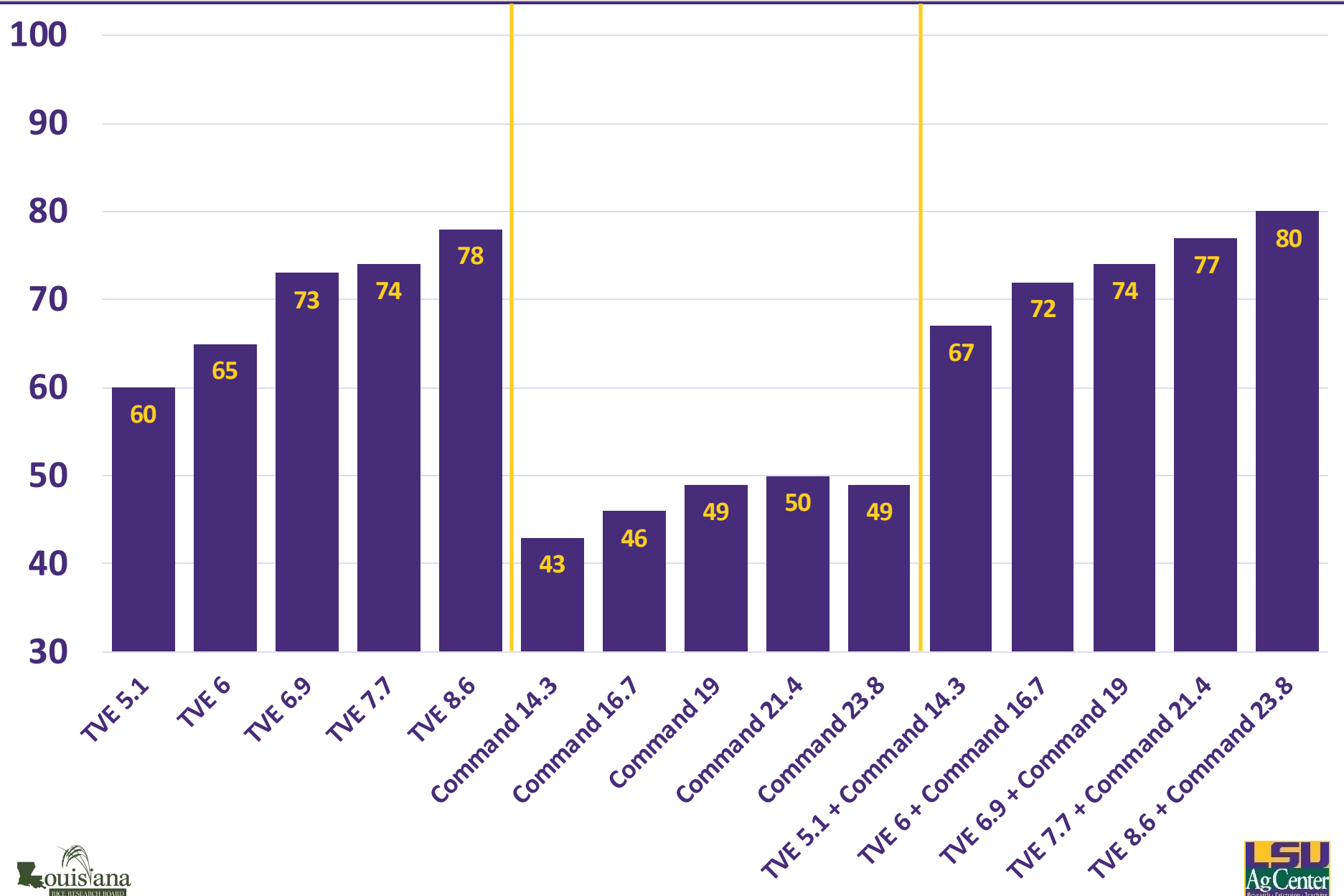
Tetflupyrolimet Rate Studies

Sharkey Clay

Barnyardgrass 21 DAT

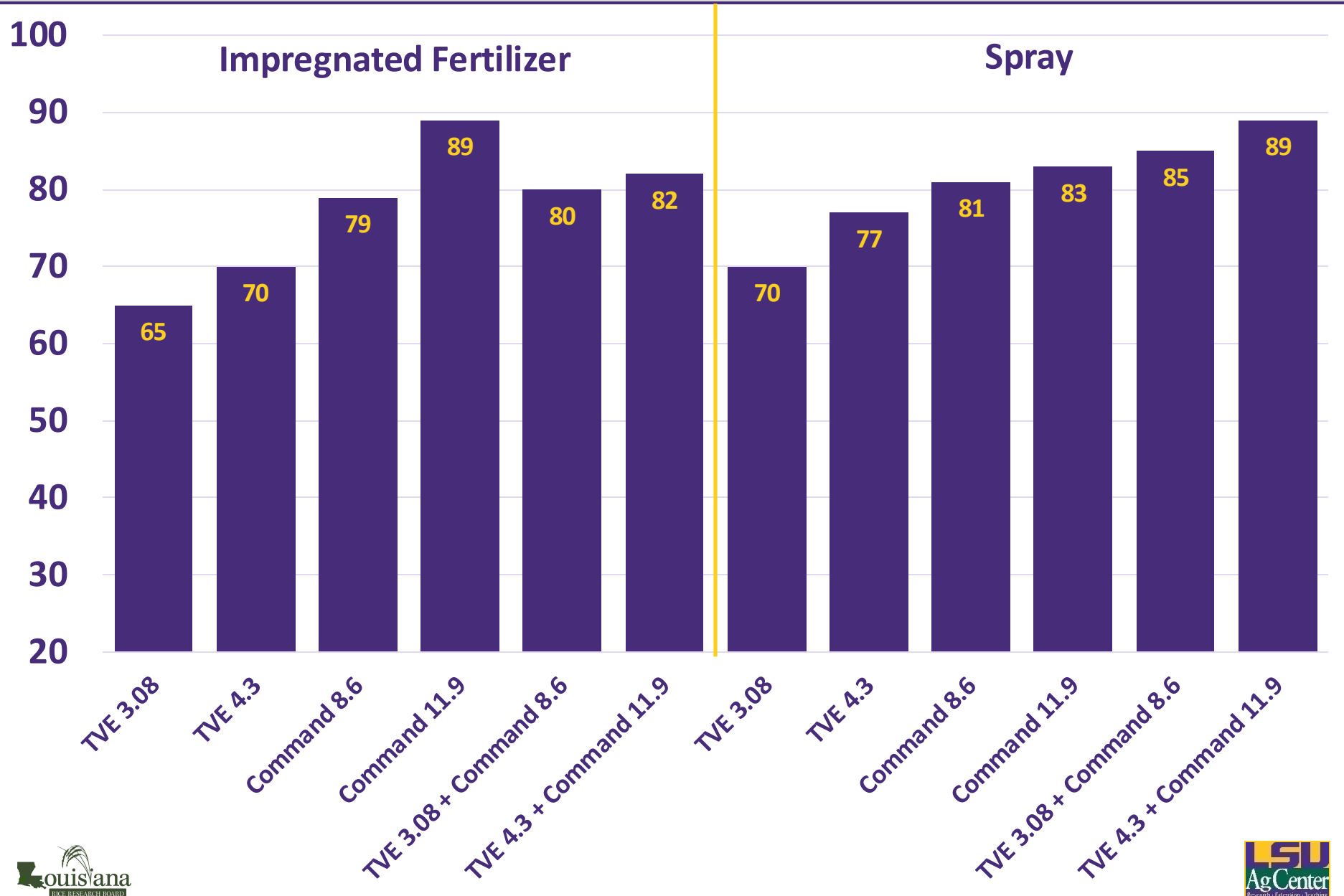


Barnyardgrass 49 DAT

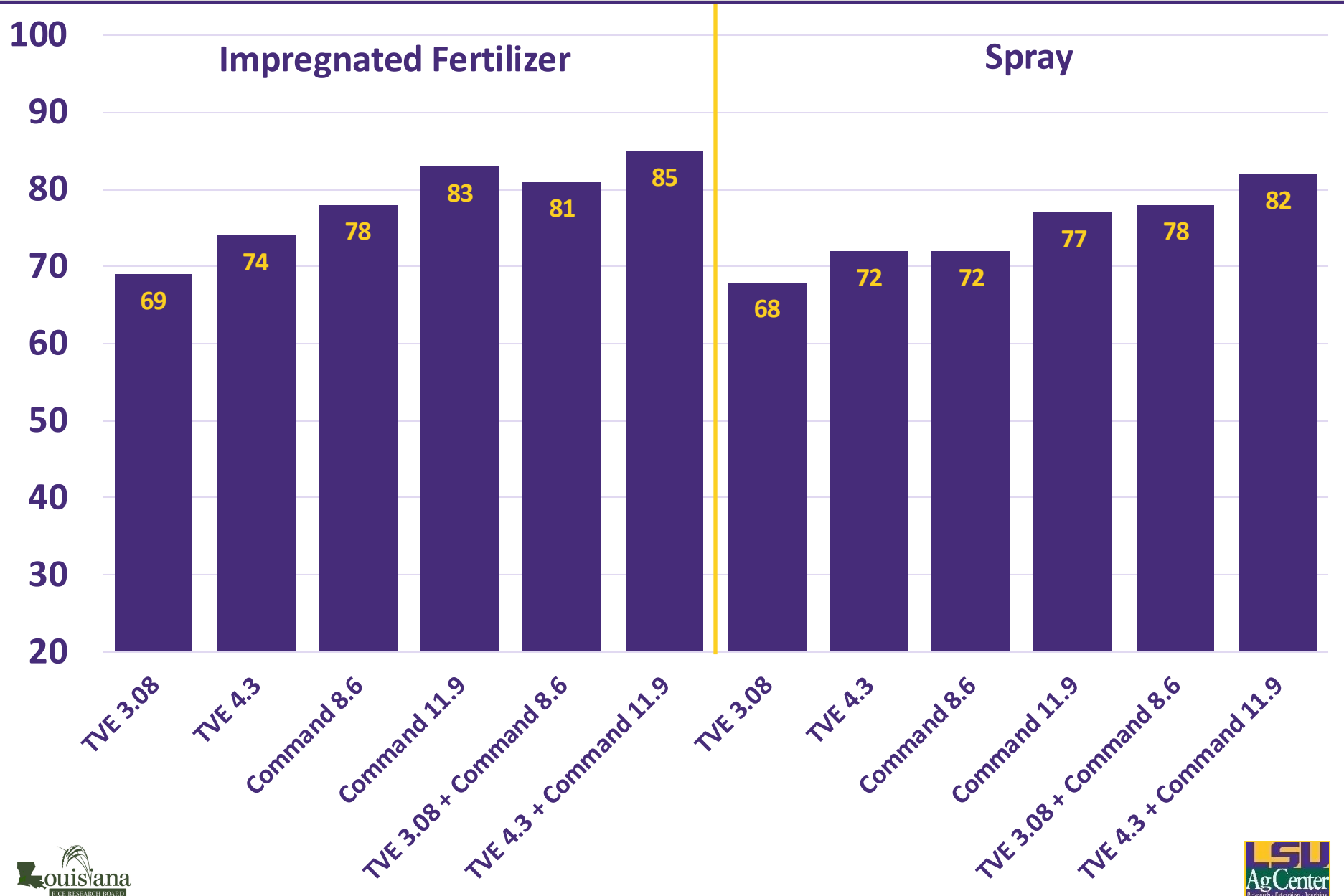


Tetflupyrolimet Impregnation

Barnyardgrass 14 DAT



Barnyardgrass 35 DAT



Provisia Injury

Provisia Injury

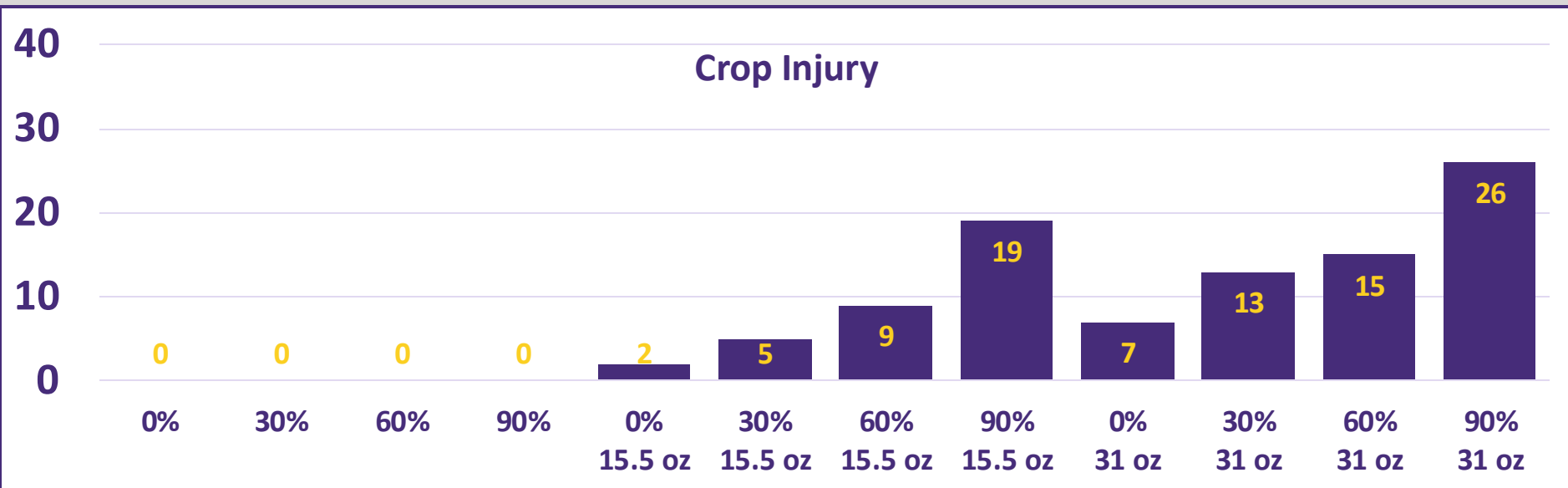
- Provisia injury was an issue in 2023 and in 2021
- Weather related
 - Cold and cloudy weather playing a role



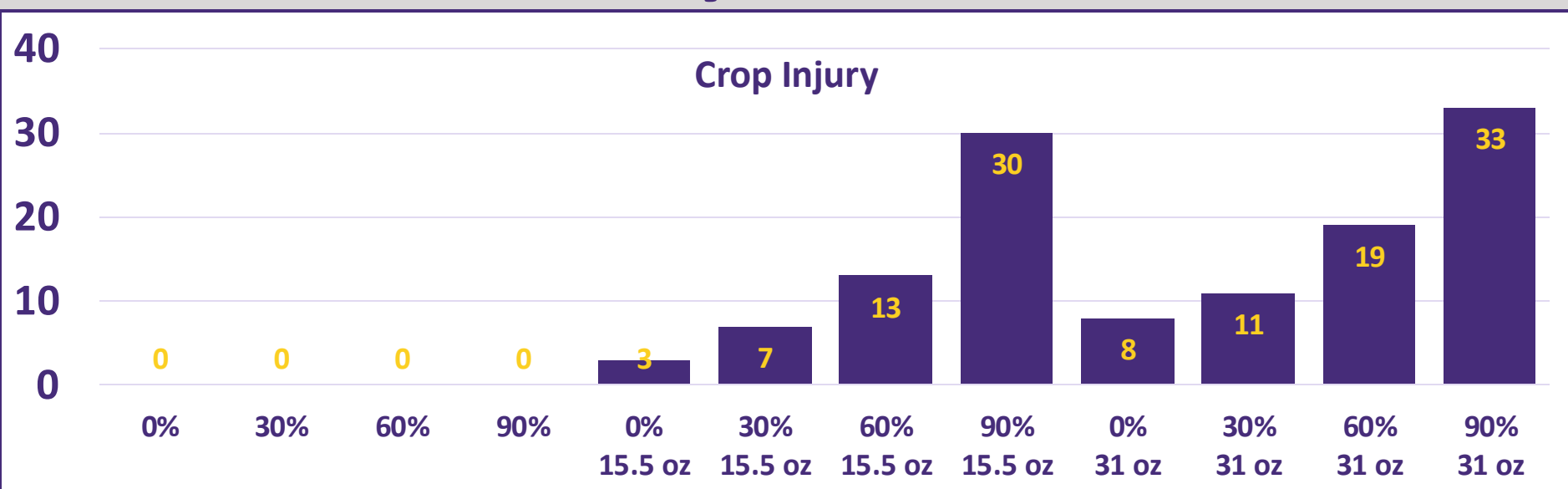
Simulated Overcast Weather Study



Shade 7 Days Before Provisia



Shade 7 Days After Provisia



Simulated Newpath/Preface Carryover

Newpath/Preface Carryover

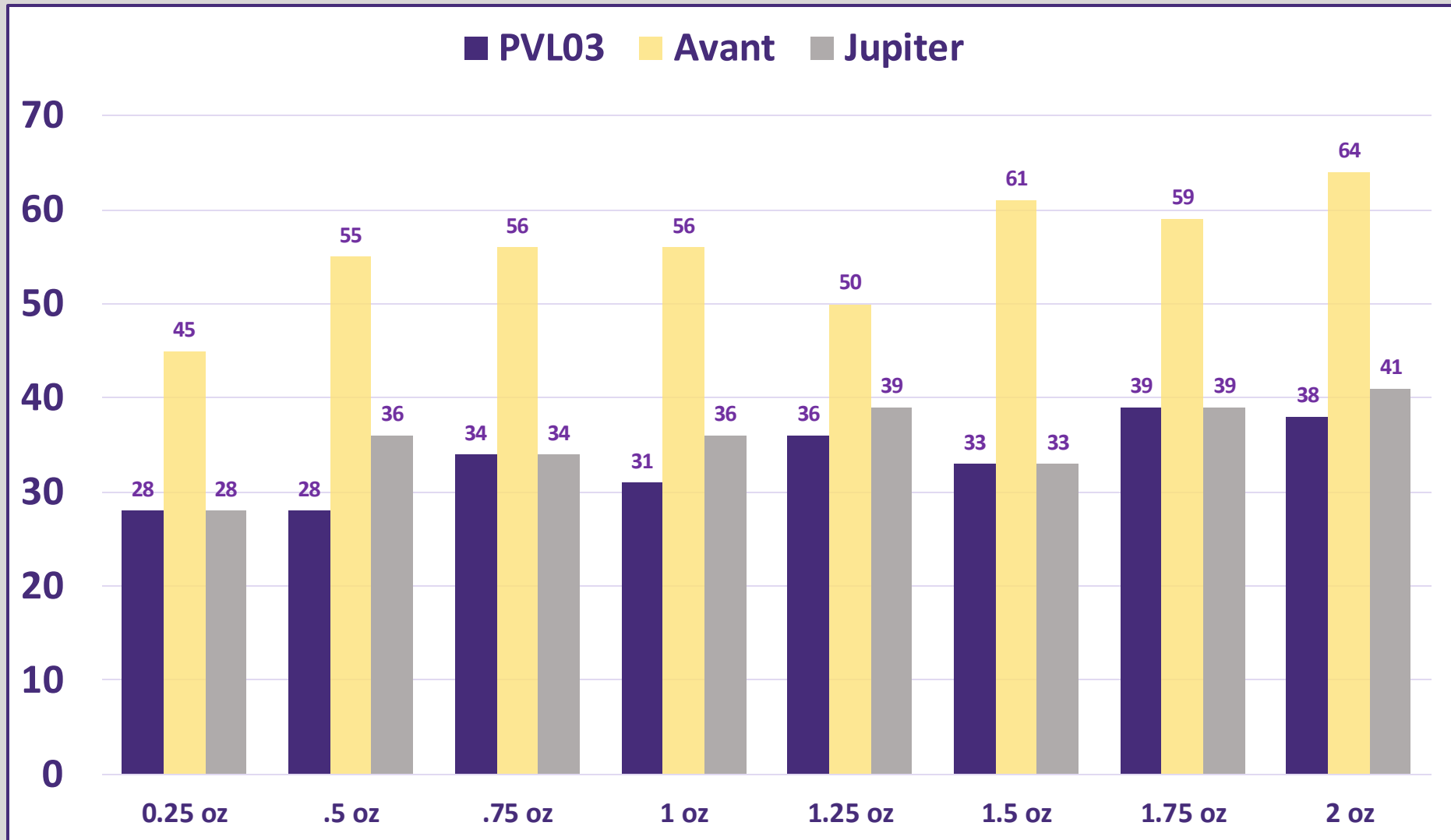
- 18-month plant back to non-IR rice
- Crawfish productions creates an anaerobic environment



Paul Zaunbrecher

Rustin Gilder, Crowley Grain

Rice Injury 21 DAE



PVL03 Injury 21 DAE



Nontreated



Newpath 2 oz

Avant Injury 21 DAE

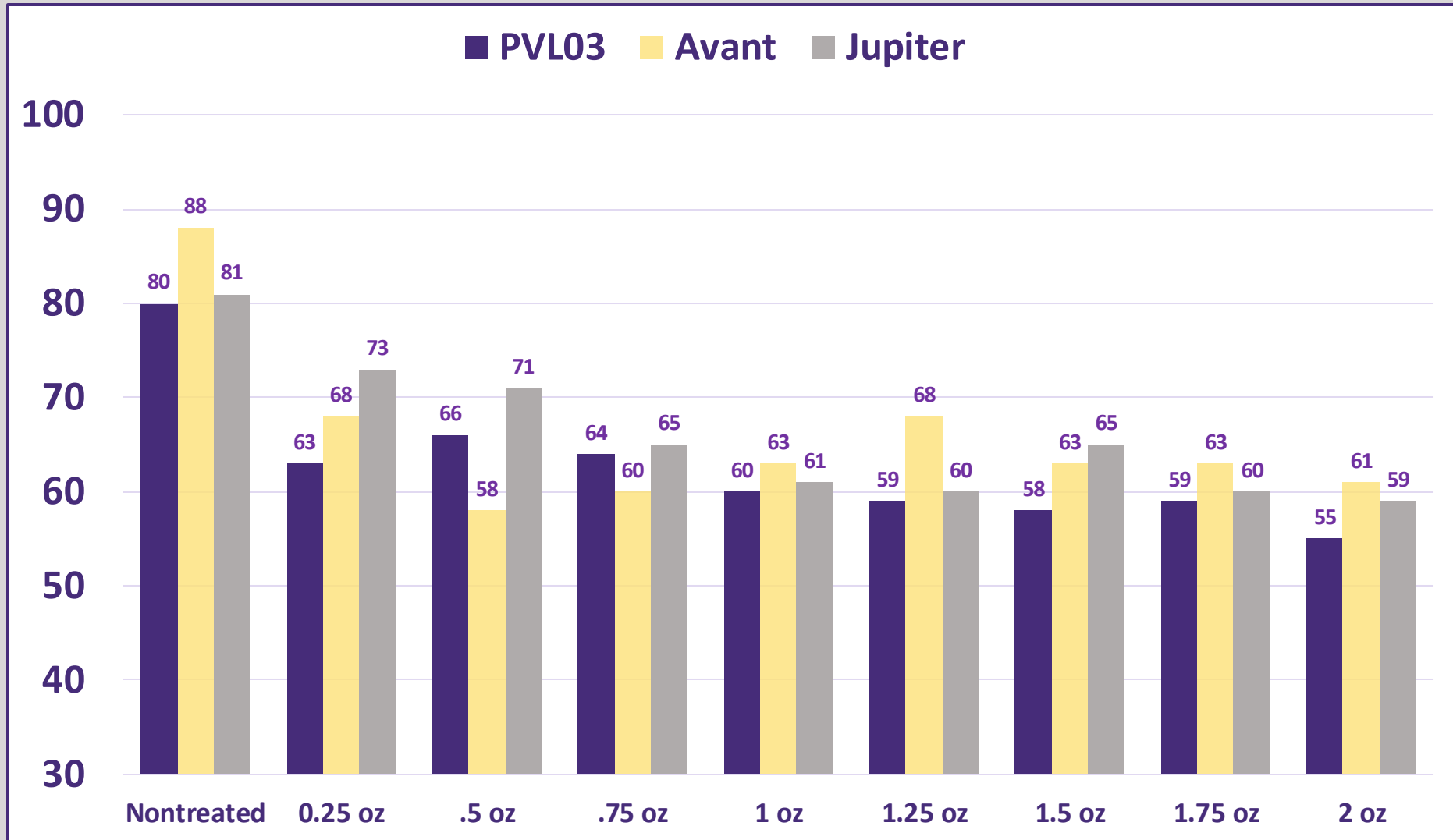


Nontreated



Newpath 2 oz

Rice % Heading 80 DAE



PVL03 % Heading 70 DAE



Nontreated



Newpath 2 oz

Avant % Heading 70 DAE

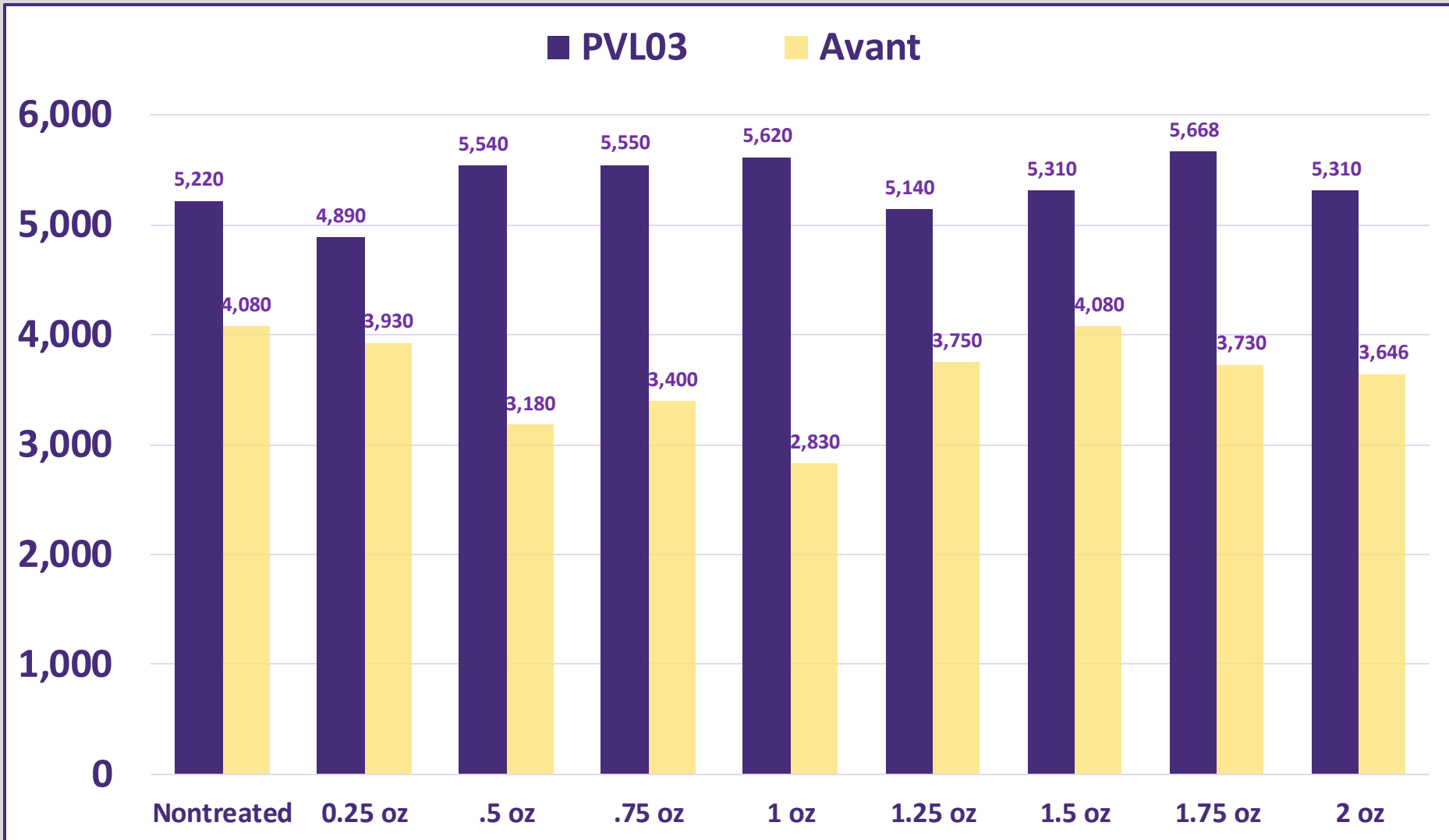


Nontreated



Newpath 2 oz

Rice Yield



Acknowledgements

- Louisiana Rice Research Board

- Graduate Students:

- Ben Stoker
- Maranda Hains
- Wesley Carr
- Gavin Sparks



- Caden Benoit, Dustin Zaunbrecher, and Eve Williams
- Brent Theunissen, Jimmy Pellerin and the rest of the farm crew
- Industry cooperators

Questions?

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