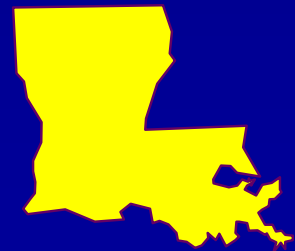


# COMBINATIONS FOR CONTROLLING TEXASWEED IN DRILL-SEEDED RICE

B.J. Williams and A.B. Burns  
Northeast Research Station



# INTRODUCTION

- Penoxsulam (Grasp) is a sulfonamide Triazolopyrimidine sulfonamide herbicide developed by Dow AgroSciences for use in drill- and water-seeded rice.
- Grasp is absorbed by plants through the leaves, shoots and roots and translocated via the phloem and xylem.
- As with many ALS inhibiting herbicide symptoms, chlorosis of the growing point and redding of leaf veins, begin appearing in 3 to 7 days. Complete plant death usually occurs 14 to 21 days.
- Grasp, reportedly, provides postemergence and soil activity on several important broadleaf weeds in rice, demonstrates excellent selectivity in rice, and has few tank mix issues.

# OBJECTIVE

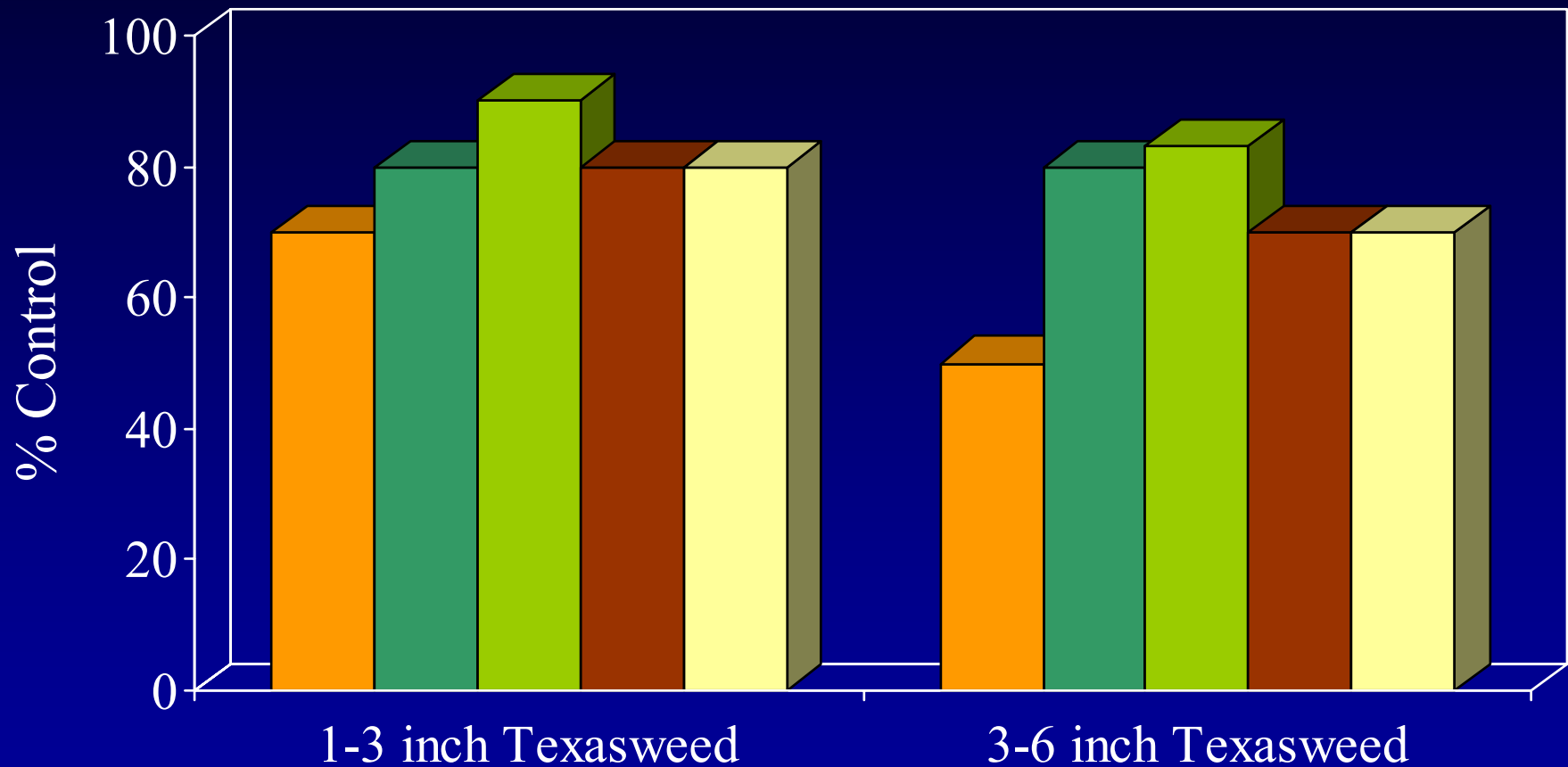
- Evaluate Grasp in drill seeded rice (including Clearfield rice) for Texasweed weed control.

# MATERIALS and METHODS

- Field experiments were conducted in 2004 and 2005 at the Northeast Research Station near St. Joseph, La.
- RCBs were used and trials were replicated three times.
- Rice was drill-seeded at 101 kg/ha on a 19 cm spacing.
- Plots were flushed as needed and flooded 5 WAP.
- Herbicide treatments were applied, using CO<sub>2</sub> pressurized backpack sprayer calibrated to deliver 140 L/ha, to plots measuring 2 by 4.5 meters.

# Texasweed Control

alone +Aim +Permit +Grandstand2.3 oz/A 2.3 oz/A

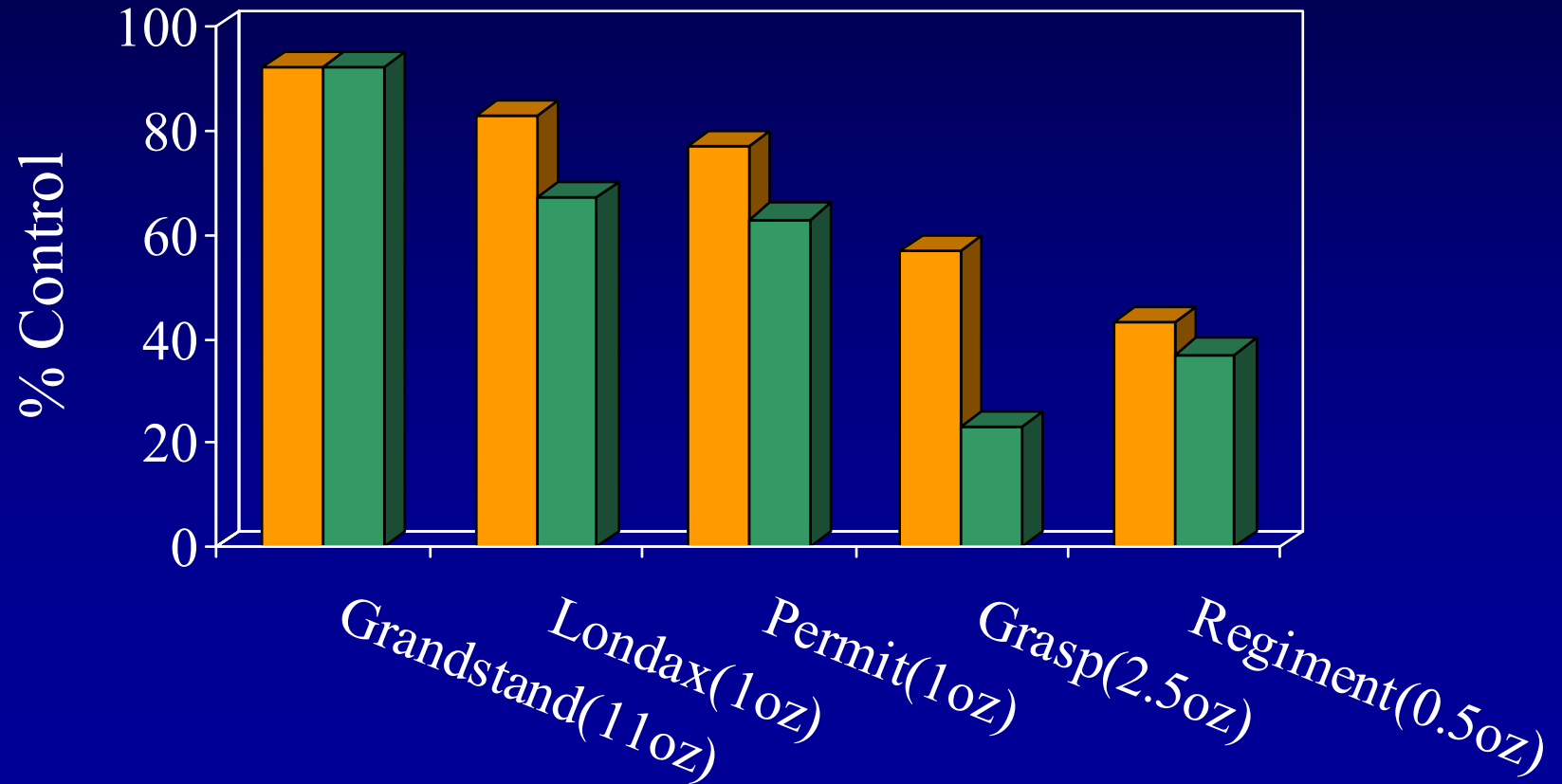


2 oz/A Grasp, 2 oz/A Grasp+1.5 oz/A Aim, 0.35 oz/A Permit or 8 oz/A Grandstand and 2.3 oz/A Grasp alone

# Texasweed Control

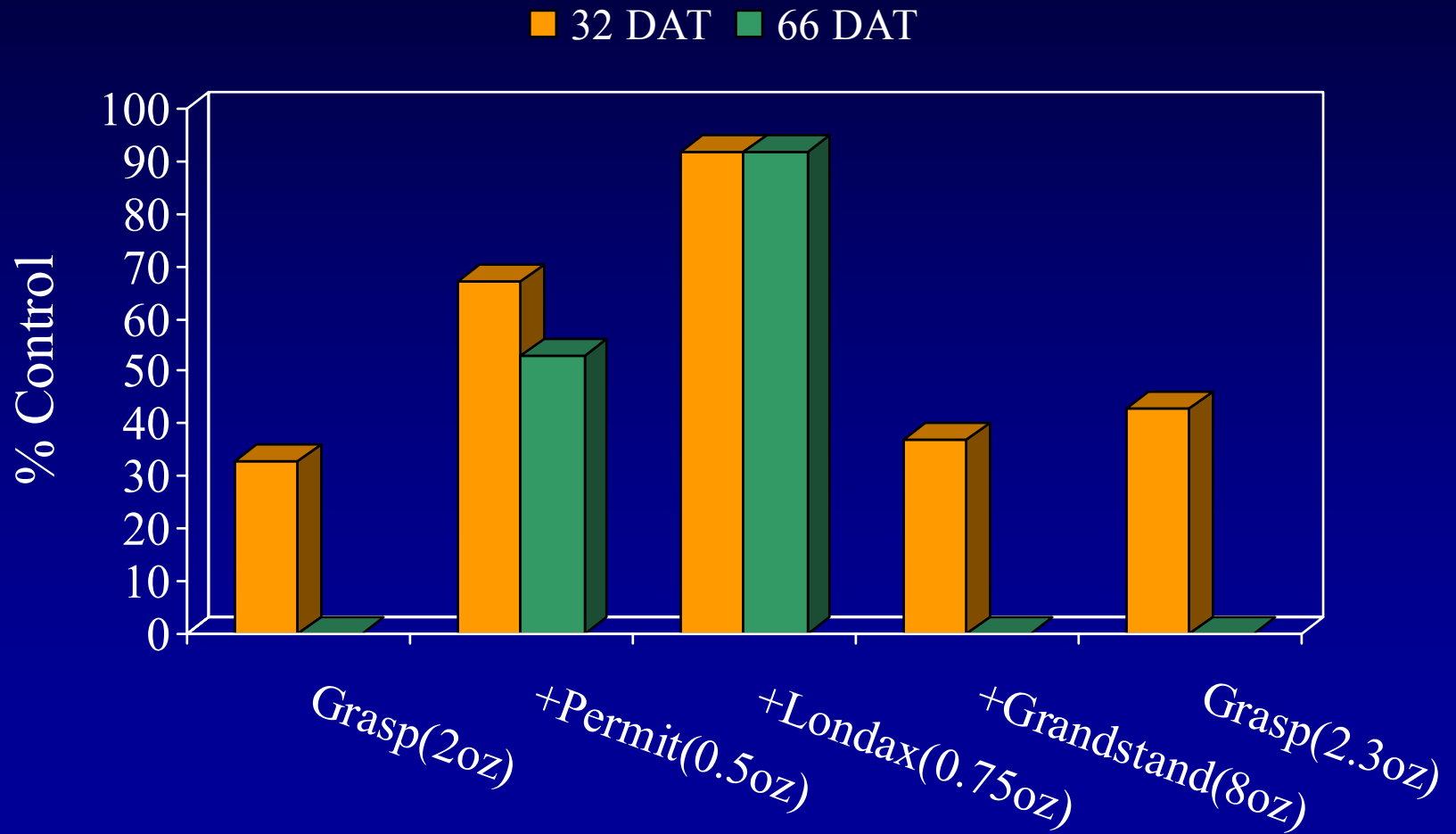
3 in at application

■ 32 DAT ■ 66 DAT



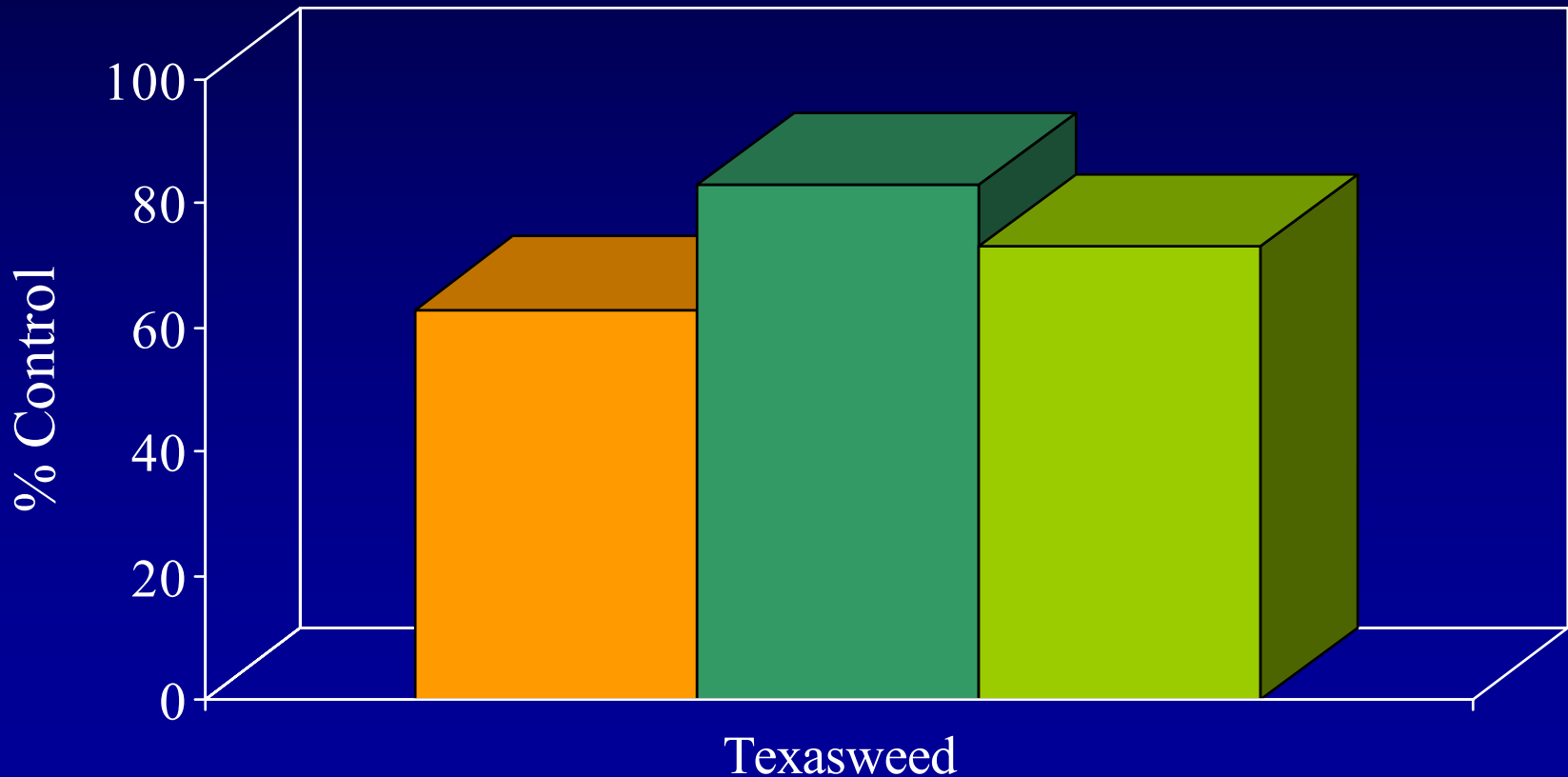
# Texasweed Control

## 3 in at application



# Texasweed Weed Control in Clearfield Rice

■ Newpath ■ Grasp w/1st appl ■ Grasp w/2nd appl



# SUMMARY/CONCLUSIONS

- Texasweed control from Grasp alone was best when applied to 1-3 inch weeds, but 80% was the best control observed.
- Early season control was improved some when Grasp was mixed with Aim, but late season control was not improved compared to 2.3 oz/A penoxsulam.
- Tank mixing penoxsulam with Grandstand did not improve Texasweed control.
- Tank mixing 2.0 oz/A Grasp with 0.35 oz/A Permit at the 1-3 inch timing improved Texasweed control from 70% with penoxsulam alone to 90%. The same treatment at the 3-6 inch timing improved control from 50 to 83%.

# SUMMARY/CONCLUSIONS

- In the second study, 11 oz/A Grandstand controlled Texasweed 92% and was the only herbicide that controlled Texasweed when applied alone.
- As in the first study combinations of Grasp with Grandstand did not control Texasweed.
- Grasp at 2.0 oz/A mixed with 0.5 oz/A Permit or 0.75 oz/A Londax controlled Texasweed 67 and 92%, respectively.
- Grasp at 2.0 oz/A or 0.5 oz/A Regiment mixed with 0.75 oz/A Londax plus 0.25 oz/A Permit controlled Texasweed 93%.
- Though preliminary, these results suggest that Grasp combinations with Londax and/or Permit can be used to control Texasweed. Additional research is needed to confirm these results and to refine rates and timings.

# ACKNOWLEDGEMENTS

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