



## Gowan Update for Rogue® on Louisiana Rice

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# BUTTE

HERBICIDE

**Currently labeled in California under a conditional registration:  
50,000 acres in 2017, 100,000 acres in 2018 and 2019**

**Federal registration of Butte created tolerances that could be used  
to support Mid-South Experimental Use Permits (EUP's) for  
water-seeded rice in the Mid-South**

**Registration of Rogue is expected in 2021**



# Mid-South Experimental Use Permits

**In 2018, Louisiana issued an EUP for 480 acres of water-seeded rice to be treated with Rogue® Plus.**

**Nine growers treated 476 acres in 2018, all nine fields aerially applied as liquid sprays or impregnated on fertilizer.**

**In 2019, Arkansas and Louisiana each issued EUP's for 480 acres of water-seeded rice to be treated with Rogue®.**

**Seven growers in Arkansas treated 12 fields (476 A.) as aerial sprays and 11 growers in Louisiana treated 13 fields (480 A.) with half as aerial sprays and the balance as impregnated urea fertilizer.**

**EUP's for 2020 in Arkansas and Louisiana have been expanded to 1000 acres in each state, with 240 acres in Mississippi. Gowan is working to obtain an EUP for Rogue in Texas. Missouri was not an option due to deficient paperwork with the EPA.**

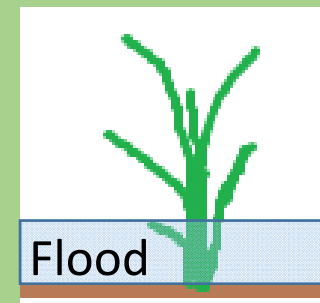
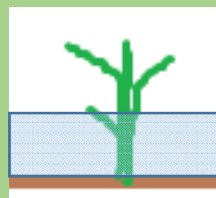
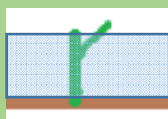


# What did we learn from the EUP's?

- **Water management is key to the success of Rogue.**
- **Rogue can be a foundation herbicide in water-seeded rice.**
- **Rogue is safe on Mid-South japonica rice cultivars.**
- **Rogue provides excellent control of aquatics, annual sedges, sprangletop and other weeds.**
- **Size matters! Smaller weeds are easier to control.**
- **Rogue can be safely applied by aerial application.**
- **Rogue complements weedy rice control programs.**

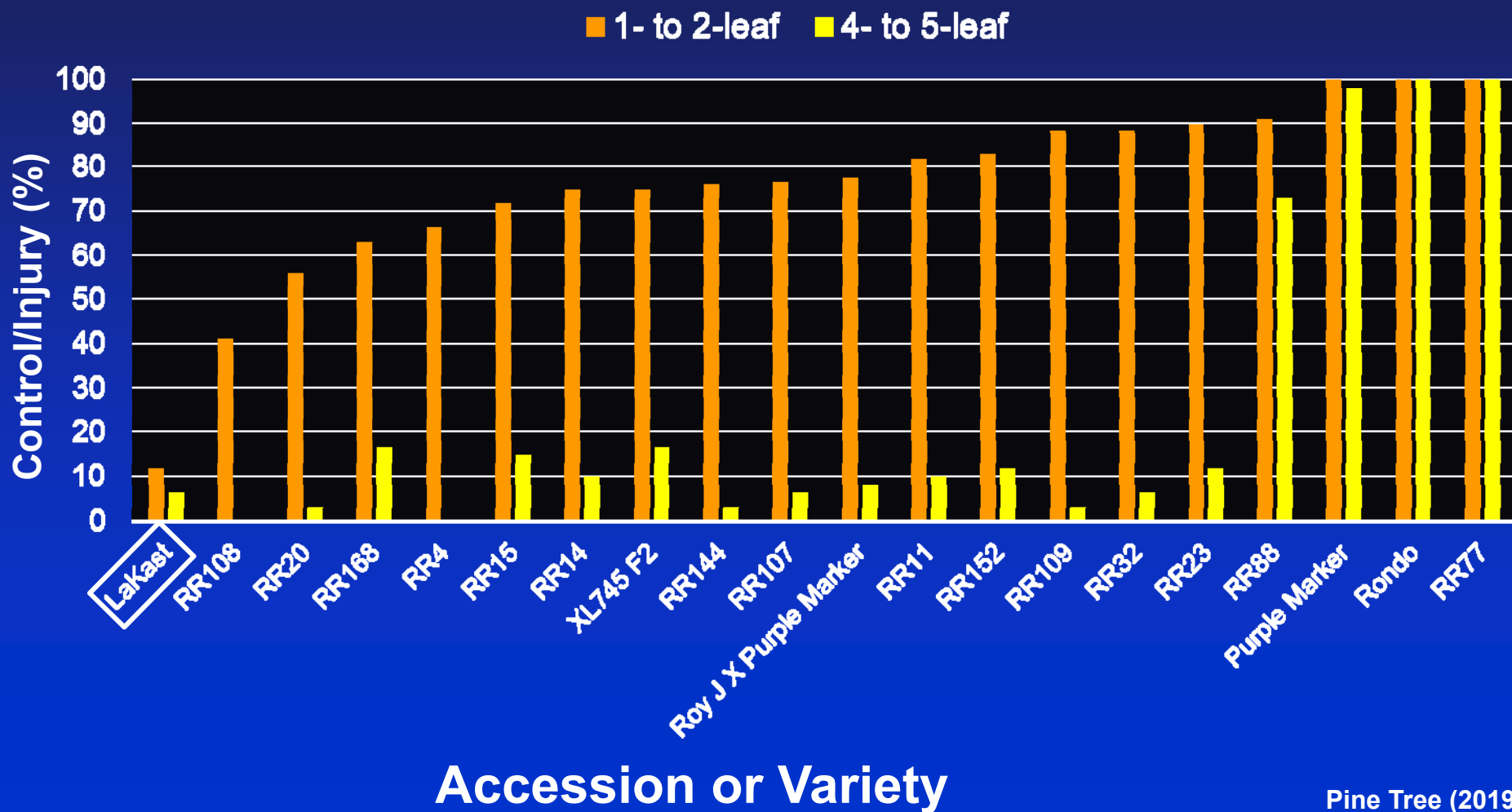
# Factors Affecting Weedy Rice Control with Rogue<sup>®</sup> Herbicide

- ❖ HIS1 genotype is the primary factor in sensitivity.
- ❖ Biomass is secondary to genotype but is critical in control of weedy rice.
- ❖ Additional stresses that injure or slow development of weedy rice favor control with benzobicyclon, e.g. pre-flood programs like Provisia<sup>®</sup>, Clearfield<sup>®</sup>, FullPage<sup>®</sup> or other herbicide programs that selectively injure weedy rice or create a growth differential between the planted crop and the weedy rice.



# Rice Tolerance & Weedy Rice Control with Rogue

(4 weeks after treatment)



Weedy rice control at 24 DAT with Rogue Plus (0.5 lb./A.) on water-seeded CLXL753



# Weedy rice control with Rogue Plus (0.5 lb./A.) on water-seeded CLXL753

Command (7 oz./A.) at pin-point flood was only other herbicide applied to field

**24 DAT (note chlorosis of weedy rice in  
drainage ditch)**



**39 DAT (note absence of weedy rice in  
drainage ditch)**





## Weedy Rice Control Programs with Provisia Rice



### **Provisia Rice**

**Command (12.6 oz./A.) PRE f/b**  
**Provisia (15.5 oz./A.) + COC (1% v/v) EP f/b**  
**Provisia (15.5 oz./A.) + COC (1% v/v) MP**

**Provisia Rice**  
**Command (12.6 oz./A.) PRE f/b**  
**Provisia (15.5 oz./A.) + COC (1% v/v) EP f/b**  
**Provisia (15.5 oz./A.) + COC (1% v/v) MP f/b**  
**Rogue (12.6 oz./A.) + MSO (1 pt./A.)**



Norsworthy, 2019 Demonstration Trial (S18) at RREC

## Weedy Rice Control Programs with FullPage Rice



### FullPage Rice

Command (12.6 oz./A.) PRE f/b  
Preface (6 oz./A.) + COC (1% v/v) EP f/b  
Preface (6 oz./A.) + COC (1% v/v) MP

**FullPage Rice**  
Command (12.6 oz./A.) PRE f/b  
Preface (6 oz./A.) + COC (1% v/v) EP f/b  
Preface (6 oz./A.) + COC (1% v/v) MP f/b  
Rogue (12.6 oz./A.) + MSO (1 pt./A.)



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# Weedy Rice Control Programs Complemented by Rogue®

## **Pin-Point Flood Programs for Weedy Rice Control in Water-Seeded Rice**

Rogue at 1 leaf stage of rice

## **Conventional Rice Programs for Weedy Rice Control with Rogue**

Prowl + Bolero DPRE f/b Rogue (dry-seeded rice)

Loyant EP and/or MP on inbred rice f/b Rogue?

## **Provisia Rice Programs for Weedy Rice Control with Rogue**

Provisia f/b Provisia f/b Rogue

Provisia f/b Provisia + Rogue

## **Clearfield Rice Programs for Weedy Rice Control with Rogue**

Newpath f/b Newpath f/b Rogue

## **FullPage Rice Programs for Weedy Rice Control with Rogue**

Preface f/b Preface f/b Rogue



# Questions?

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