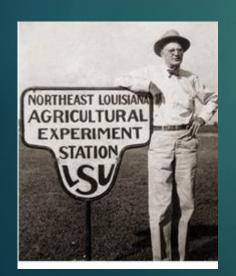
#### **Cotton Weed Control Issues**

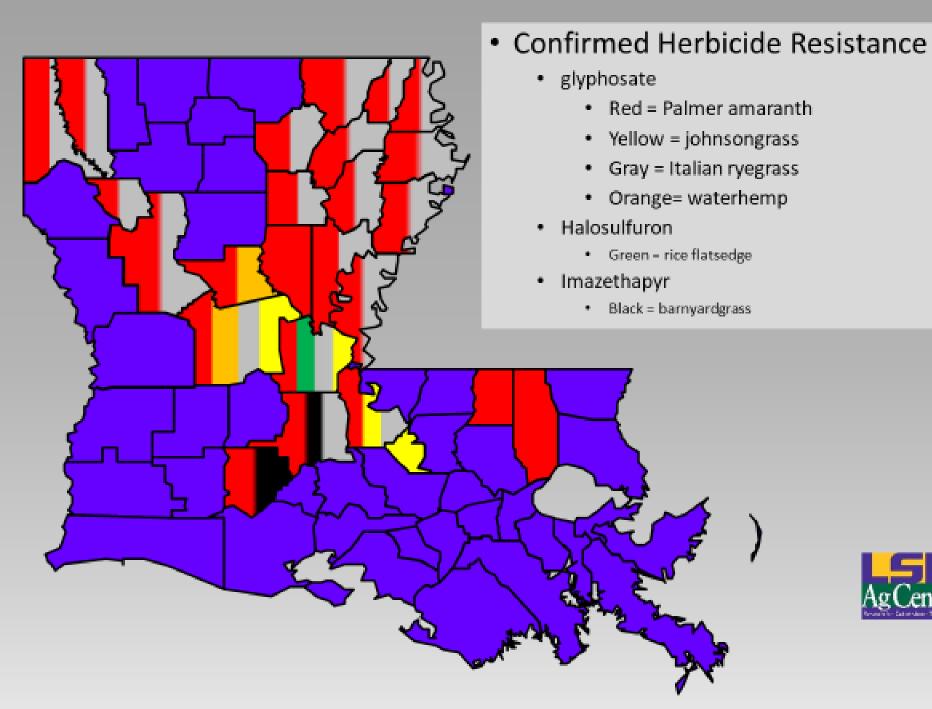
# DONNIE MILLER NORTHEAST RES. STATION













# **ESA** impact on Enlist products

#### Enlist One\* and Enlist Duo\* herbicides county restrictions:

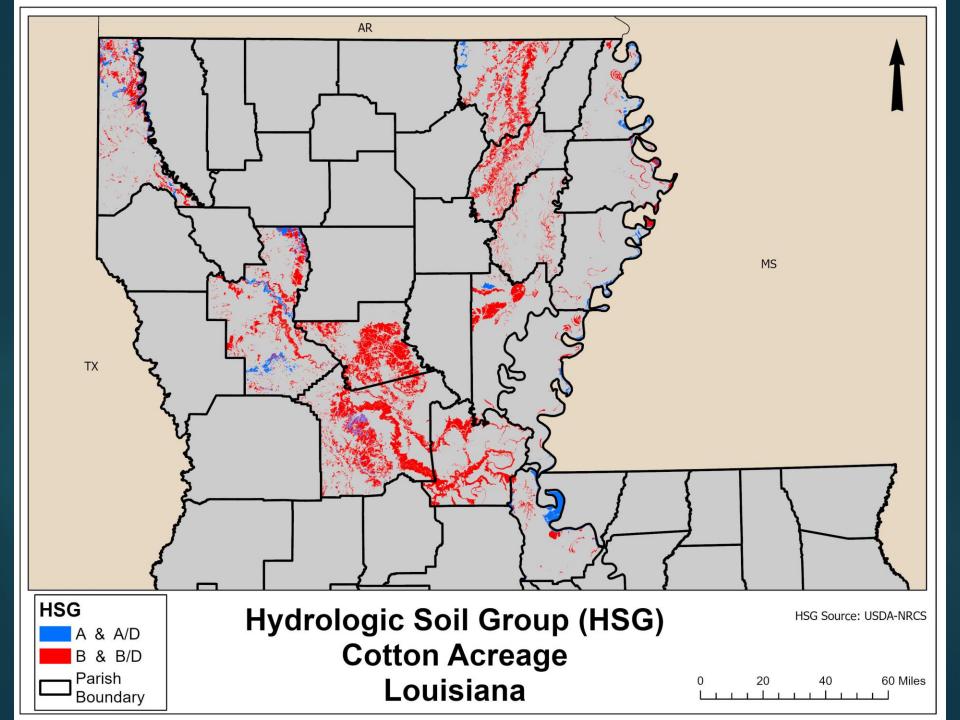
The map and county lists below represent county restrictions found on the federal Enlist One" and Enlist Duo" herbicide registrations as of January 11, 2022.





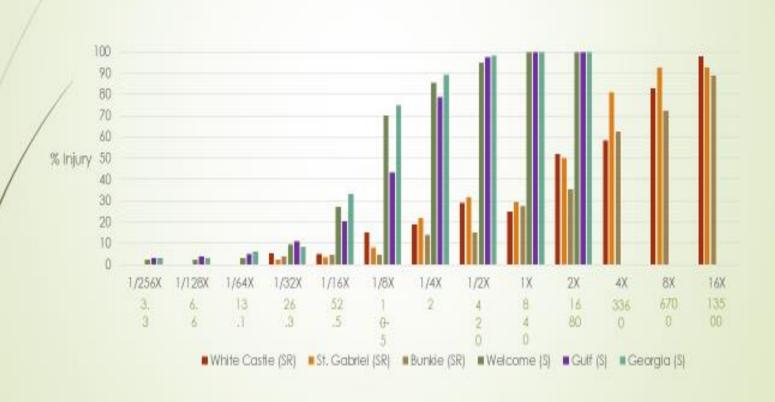
#### Diuron and Fluometuron Future

- All pesticides in US registered by EPA
- Under FIFRA reviewed every 15 yrs
- Endangered Species Act and Endocrine Disruptor Screening Program
- Both in PID (Proposed Interim Decision Phase)
- Identified potential cancer risks from food and drinking water exposure and residential handler paint exposure
- EPA cannot make an aggregate safety finding for diuron
- PID for diuron proposes termination of nearly all conventional uses (including all food/feed uses and conventional herbicide use) and proposed reduction rate for all paints and building material products.
- PID for fluometuron proposes to eliminate use of soils that are hydrologic groups A and B, which are less than 20% clay content.





## Italian Ryegrass Injury 18 Days after Application with Paraquat



### Italian Ryegrass Control

- Resistance limiting POST options
- Cover crop tolerance and herbicides in fall to inhibit Ryegrass emergence and growth
- Command, S-metolachlor, Zidua,
- Tolerance of cereal rye to metribuzin and Command applied POST





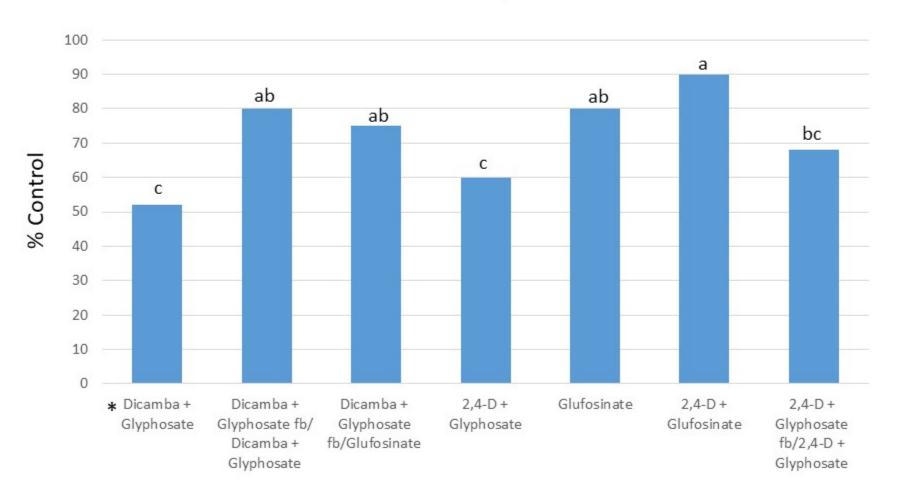






#### Palmer Amaranth Control Madison County

#### Palmer Control 14 Days After Last Treatment



<sup>\*</sup>Initial Application was applied on Palmer amaranth 2 to 4" tall Rates: Engenia 12.8 oz/A; Roundup PM 32 oz/A; Enlist One 32 oz/A; Liberty 32 oz/A



















#### Annual Grass Control

- 2020 MSU reported 7-15% increase in control of signalgrass and ryegrass when clethodim and glyphosate were not allowed to mix with 2,4-D/dicamba (chemical interaction?)
- 2020 Purdue reported antagonism on volunteer corn with 2,4-D and clethodim requiring separate applications
- 2020 LSU AgCenter research indicated a 20 percentage point reduction of barnyardgrass control with dicamba and glyphosate
- 2020 Tennessee reported a 30 percentage point reduction in junglerice control with dicamba and glyphosate (auxins and actively growing plant?)
- Grass size, environmental conditions, rates, resistance





# Teaweed and Yellow Nutsedge Control

- ► Enlist Duo and RMP/Xtendimax control teaweed at 1-2" (size issue). Staple LX POST addition
- Fluometuron alone or plus Staple LX good teaweed control PRE (time for POST application)
- Fomesafen fair control of yellow nutsedge preplant
- Dual Magnum fair/good on yellow nutsedge PRE
- Glyphosate/Envoke good POST
- Plant size, environmental conditions, rates







# Zidua Fertilizer Application

- 3.2 oz; at least 200 lbs fertilizer
- Effective grass and pigweed control with good distribution
- Potential for wet leaf burn
- Free up time and equipment utilized for PD/POST application making timings more efficient
- Application on many row spacings.





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