

Sugarcane Stem Borer Scouting Guide

Blake Wilson

LSU AgCenter Field Crops Entomologist

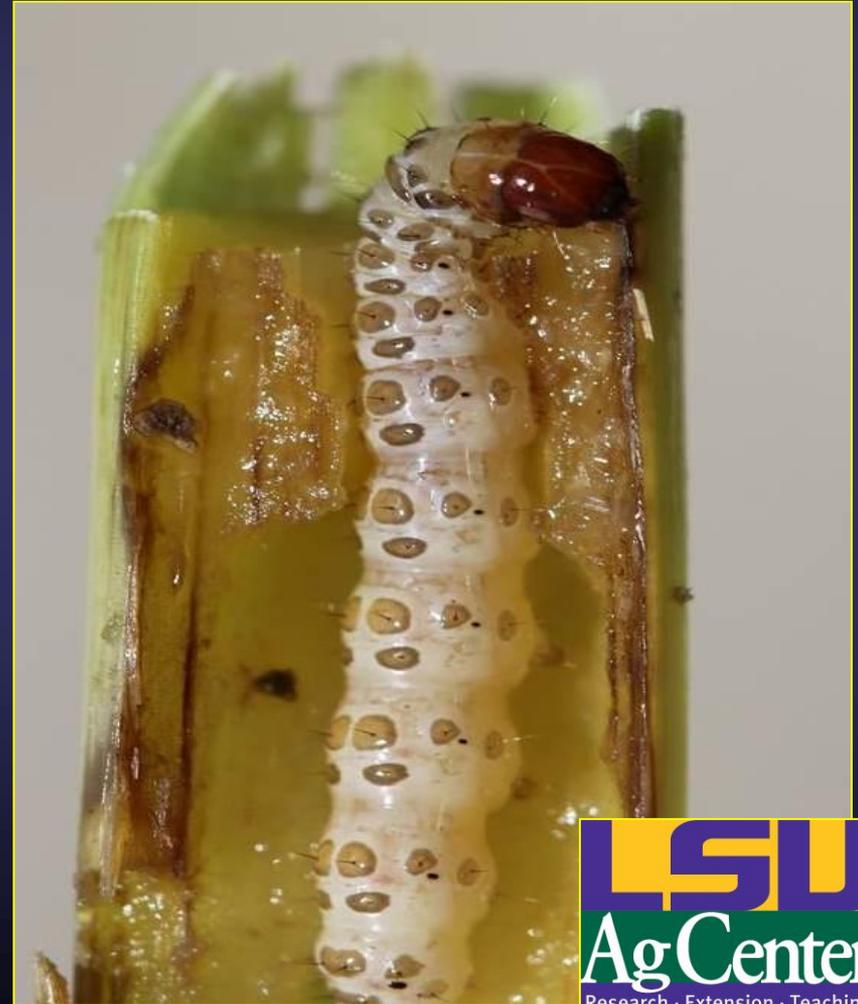


Stem Borers Attacking Sugarcane

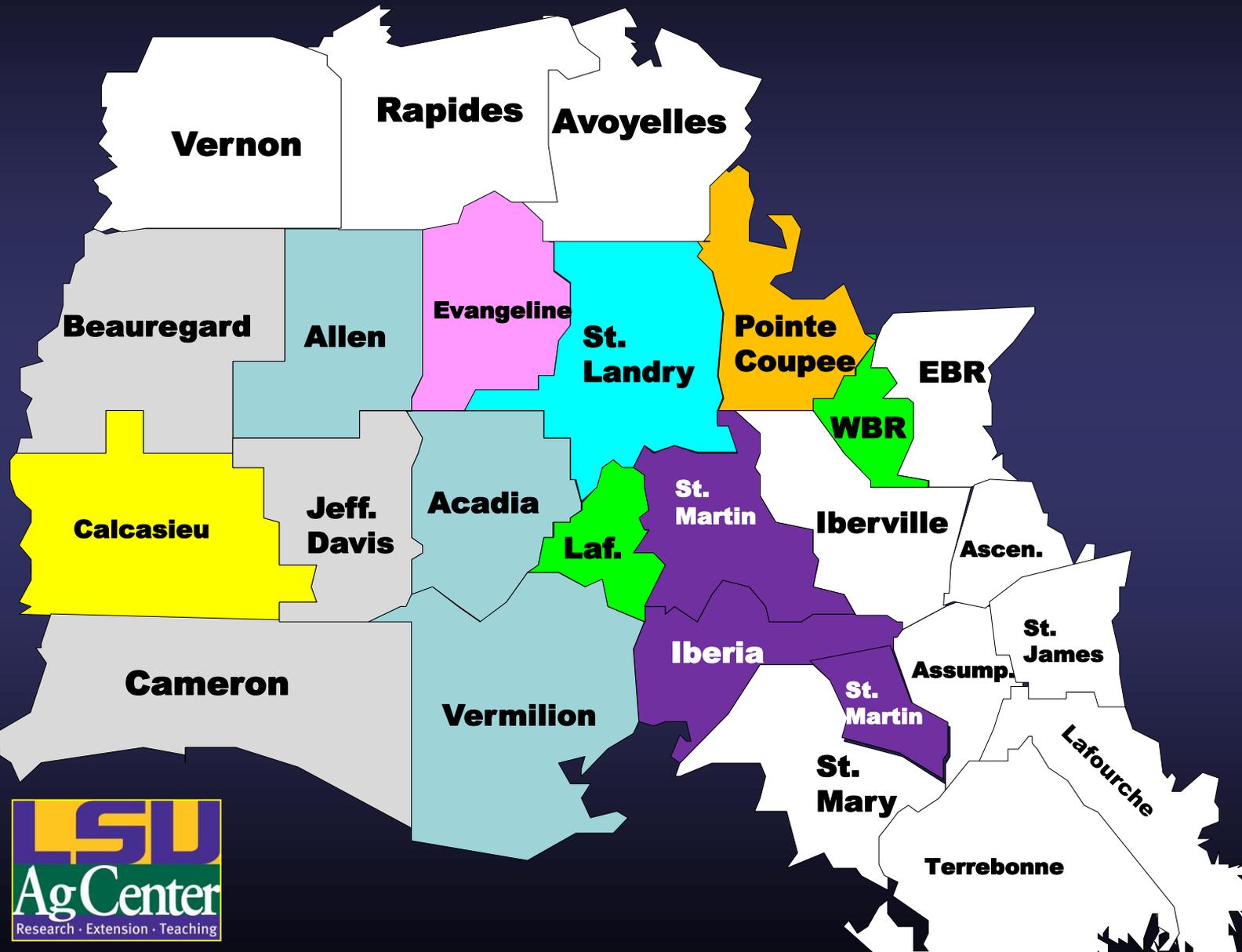
Mexican Rice Borer (MRB)
Eoreuma loftini



Sugarcane Borer (SCB)
Diatraea saccharalis



MRB Range Expansion



Scouting for Borers

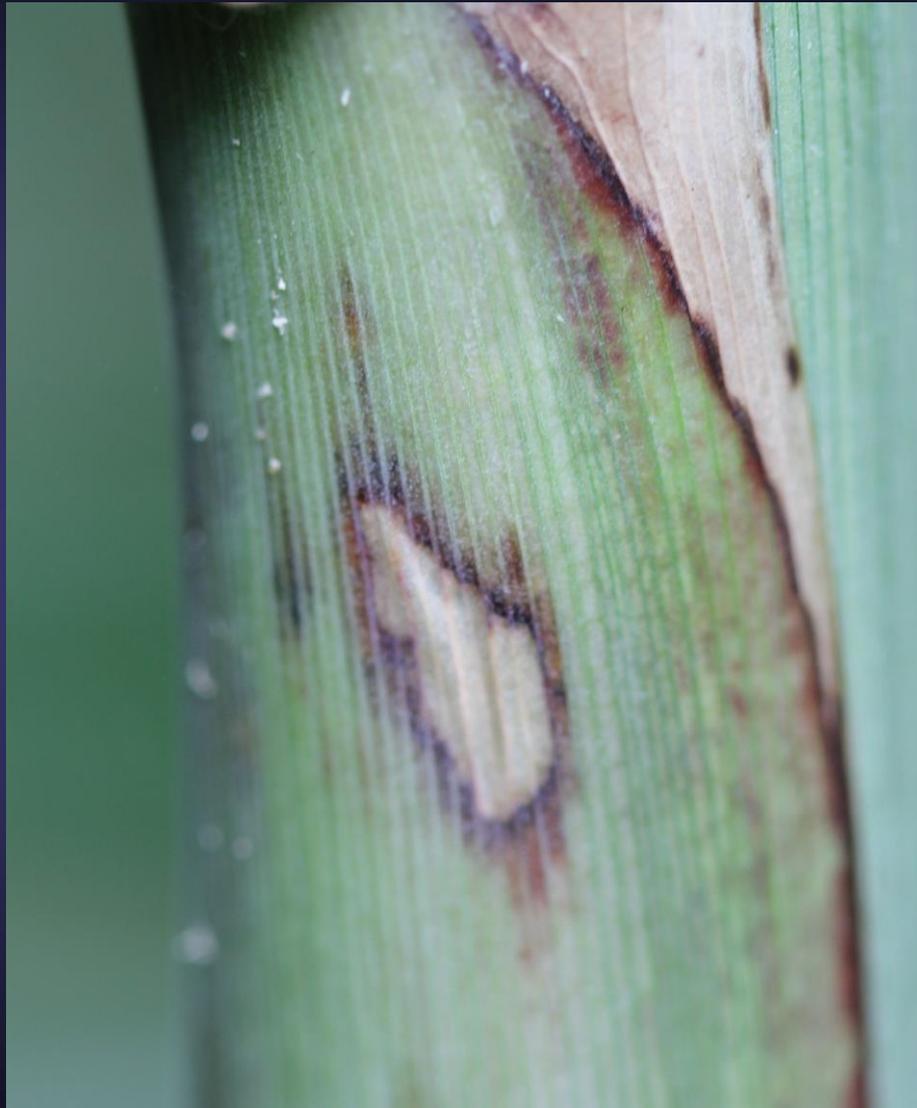
Pull back leaf sheaths of top three internodes and look for borer larvae

Check 50-100 plants in each field, check in multiple places to cover whole fields

Scout all fields late May-early September
Check weekly when possible,
susceptible varieties more frequently

Hiring a certified crop consultant to scout all fields is recommended

Scouting for Borers



External injury signs

SCB larva in sheath

Scouting for Borers

MRB \neq SCB

Larvae often feed lower in the canopy

Eggs laid on dry leaves

Larvae move up

Enter into leaf tissues

More rapid stalk entry

Scouting research is ongoing

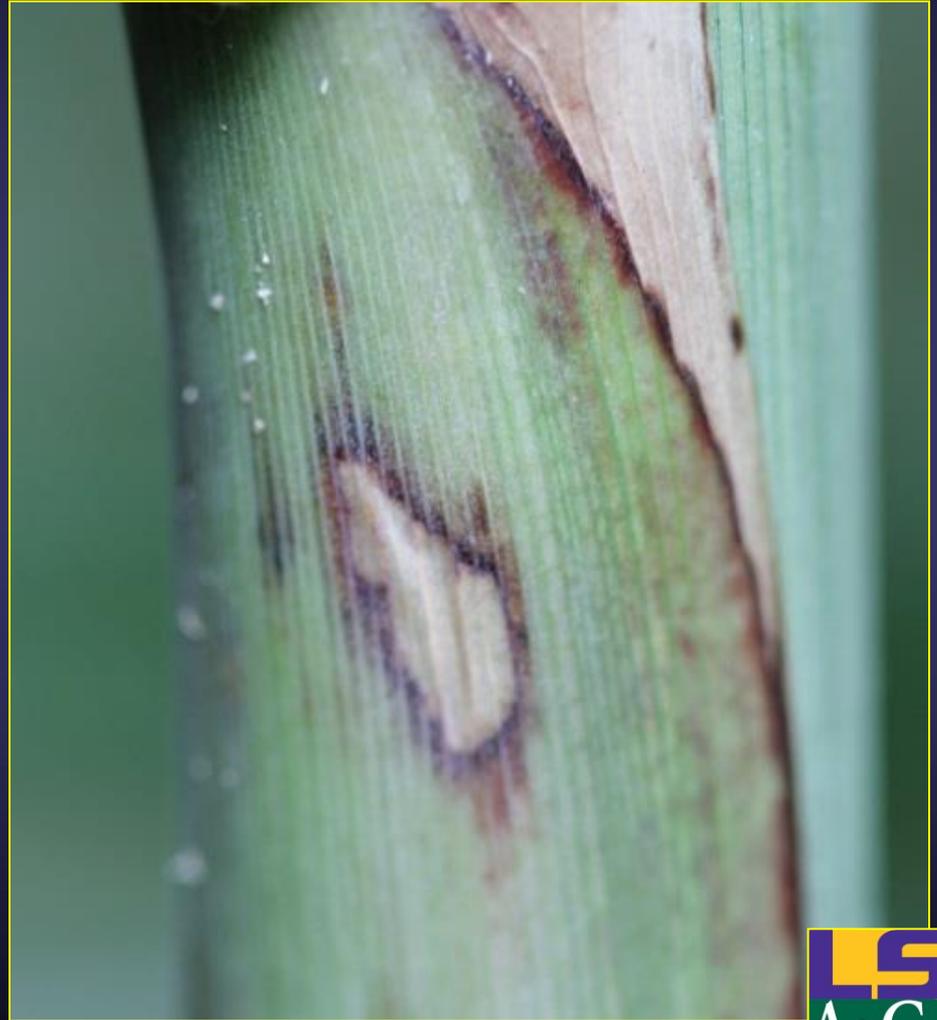
Drought stressed cane preferred by MRB

Scouting for Borers

Mexican Rice Borer Injury



MRB



SCB

Scouting for Borers

Mexican Rice Borer Injury



Scouting for Borers

Mexican Rice Borer Injury



When to spray?

Economic threshold: Spray if >3-5% of stalks infested with larvae in leaf sheaths.

Early season infestations are more damaging to yields

Applications after September 1st may not be beneficial.

What to spray?

Confirm[®] 2F
INSECTICIDE

GROUP 16 INSECTICIDE

Diamond[®]
0.83 EC

| ACTIVE INGREDIENT | % BY WT. |
|----------------------------------------------------------------------------------------------------------|----------|
| Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea* | 9.3% |
| OTHER INGREDIENTS: | 90.7% |
| TOTAL | 100.0% |

*Contains 0.83 lbs. novaluron per gallon.
EPA Reg. No. 66222-35

EPA Est. No. 37429-GA-001**; 37429-GA-002**
Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

DuPont[™] Prevathon[™]
insect control
with the active ingredient
RYNAXYPYR[®]

 **Besiege[®]**

**All available products are effective.
Prevathon is recommended for most
situations.**

Stem Borer IPM

Variety Resistance

Susceptible

- HoCP 00-950
- HoCP 96-540
- Ho 05-961
- HoCP 04-838
(MRB)
- L 11-183
- L 12-201

Intermediate

- HoCP 07-613
- L 01-283
- L 03-371
- HoCP 12-615

Resistant

- L 01-299
- HoCP 85-845
- HoCP 04-838
(SCB)

Susceptible cultivars are often >5X more injured than resistant varieties when not protected.

Questions?



Blake Wilson
bwilson@agcenter.lsu.edu
985-373-6193

