Emerging pests of rice: Stem borers and apple snails

Blake Wilson Field Crops Entomologist

LATMC Rice Breakout Session



February 14, 2020



Rice stem borer complex



Sugarcane borer Diatraea saccharalis



Mexican rice borer Eoreuma loftini



Rice stalk borer Chilo plejadellus

Rice stem borer complex Lep.: Crambidae, Snout moths



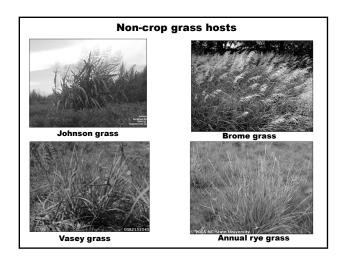
Sugarcane borer Diatraea saccharalis

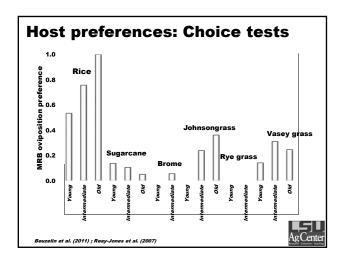


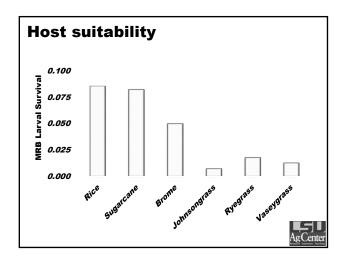
Mexican rice borer

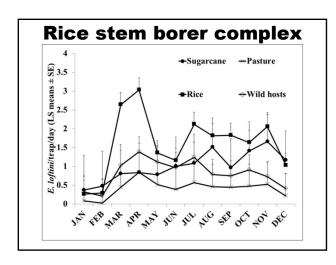


Rice stalk borer Chilo plejadellus









Stem Borer Management



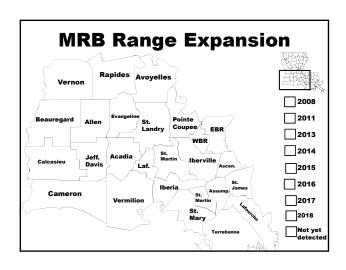
late tillering
• Pyrethroids can be

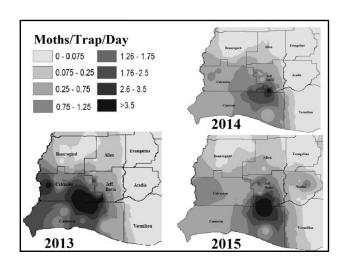
• Begin scouting in

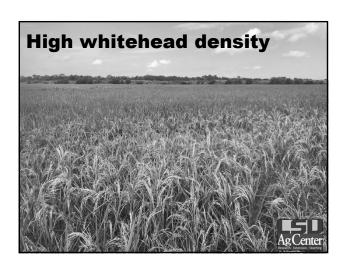
- Pyrethroids can be applied with fungicides for sheath blight
- Once white-heads are present, losses have already occurred

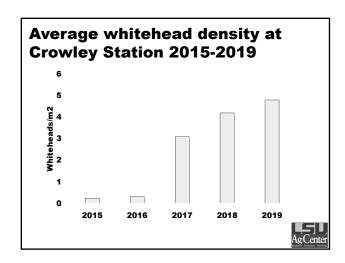
Stem borer injury to leaf sheath



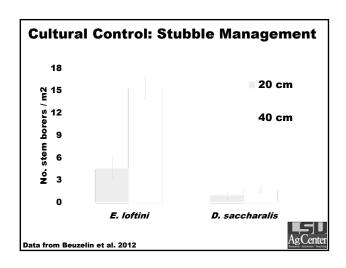


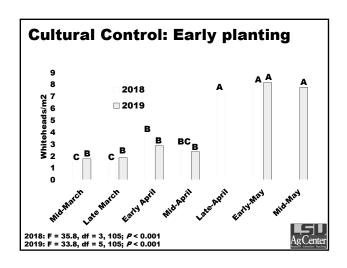


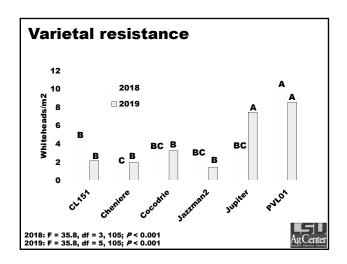








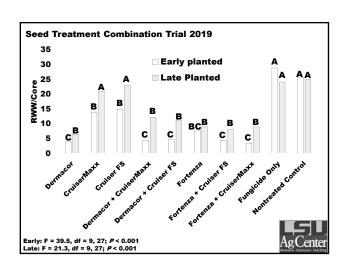


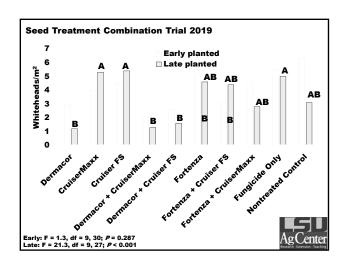


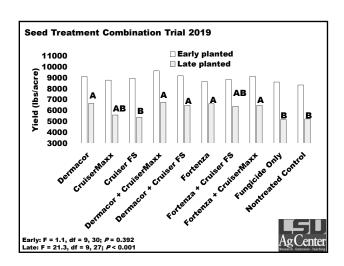


Insecticidal seed treatments (ISTs) -Dermacor X-100 (chlorantraniliprole) -Controls: RWW, armyworm, borers -Fortenza (cyantraniliprole) -Controls: RWW, Armyworm? Colsasipis? -Cruiser (thiamethoxam) -Nipslt Inside (clothianidin) -Controls: RWW, colaspis, aphids, - chinch bugs, thrips

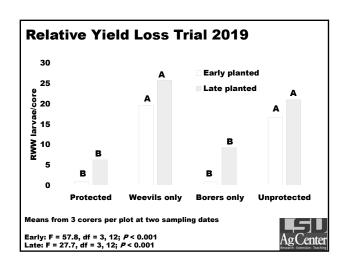
Seed treatment trials 2019 -10 Treatments combinations -Early planted (March 22) and late (May 2) -Stand counts (not presented) -3 cores/plot taken at 4 and 5 weeks after permanent flood -Whiteheads and yield data

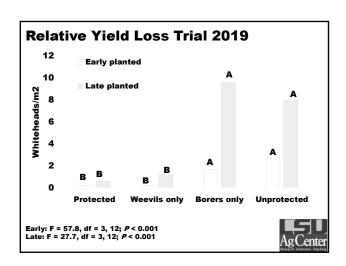


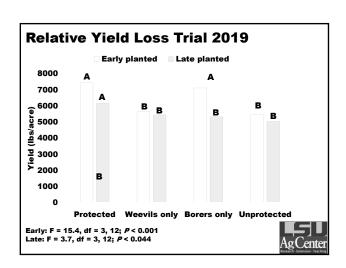


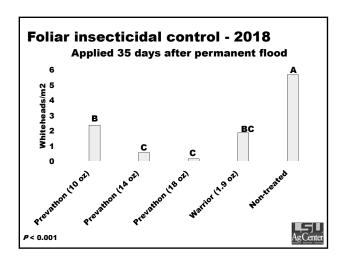


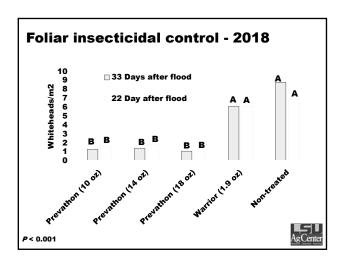
Relative yield loss 2019 -Unprotected (RWW and borers) -RWW only (Prevathon sprayed) -Borers only (Fortenza + Cruiser) -Protected (Dermacor X100) -Early planted (March 29) and late (May 17)



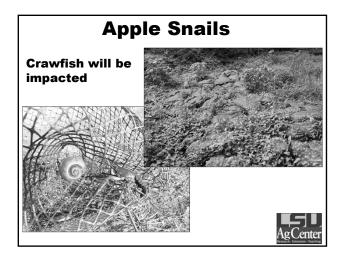


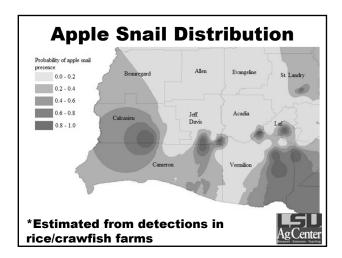












Slow the Spread Mermentau and Vermilion rivers and tributaries

are infested

Check surface water irrigation sources for presence of snails

Source crawfish stock from uninfested areas

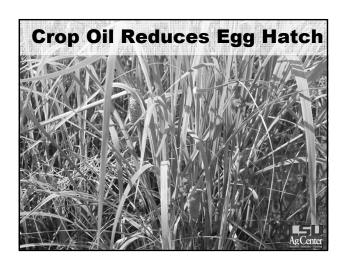
Egg masses can be transported on boats or other equipment

Report new infestations to AgCenter extension agents









Questions?

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Call me or your extension agent with any questions.



