

# 2022 Missouri Rice Insecticide Seed Treatment Trial

Furrow-Irrigated Rice

Conducted by the  
*University of Missouri Rice Agronomy Program*

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Rice Agronomy

**Materials & Methods:** Rice billbug has become an economically important pest across a growing number of furrow-irrigated rice (FIR) acres. It currently appears that an insecticide seed treatment is the only viable way of controlling the pest. As part of a larger, multi-site project out of Arkansas, one site was included at the Missouri Rice Research Farm near Glennonville, MO. Several common rice insecticide seed treatments were studied both solo and in two-way combinations.

## 2022 Missouri IST Trial - FIR

Agronomic Information	
Location	MRRMC (Glennonville)
Planting Date	May 19
Emergence Date	May 28
Flood Date	June 21
Harvest Date	October 21
Soil Type	Silt Loam
Location Info	Research Station
Water Management	Furrow-Irrigated
N Management	3-way split
N Rate (lbs N/ac)	166

**Results:** Results suggest that there was not a significant influence of insecticide seed treatment on rice grain yield at the Missouri Rice Research Farm in 2022. There was some variability in the yield of NipsIt® + Dermacor®, CruiserMaxx® Rice + Fortenza®, and CruiserMaxx® Rice + NipsIt® but the results do not correlate to any of the products increasing yield potential this year.

However, we do see that when the trial is averaged across 6 sites with heavy billbug pressure (mostly in Northeast Arkansas), there is value in a combination insecticide seed treatment including Fortenza® or Dermacor®. We hope to continue this study in 2023 to see why the variability existed with the treatments mentioned above, with Dr. Chase Floyd taking the lead on studies going forward.

## 2022 Missouri IST Trial - FIR

Cultivar	Insecticide Seed Trt	Yield
		bu/ac
RT 7521 FP	Untreated Check	143
RT 7521 FP	CruiserMaxx Rice	144
RT 7521 FP	Fortenza	144
RT 7521 FP	Dermacor	142
RT 7521 FP	NipsIt	143
RT 7521 FP	NipsIt + Fortenza	140
RT 7521 FP	NipsIt + Dermacor	149
RT 7521 FP	CruiserMaxx Rice + Fortenza	157
RT 7521 FP	CruiserMaxx Rice + Dermacor	144
RT 7521 FP	CruiserMaxx Rice + NipsIt	128
<b>AVERAGE</b>		<b>143</b>

## IST Trials - FIR Average Over 6 sites

Insecticide Seed Trt	Yield	
	bu/ac	
Untreated Check	167 c	
CruiserMaxx Rice	182 b	
Fortenza	190 b	
Dermacor	189 b	
NipsIt	182 b	
NipsIt + Fortenza	200 a	
NipsIt + Dermacor	198 a	
CruiserMaxx Rice + Fortenza	200 a	
CruiserMaxx Rice + Dermacor	199 a	
CruiserMaxx Rice + NipsIt	183 b	
<b>AVERAGE</b>		<b>189</b>