

**RICE INSECTICIDE PERFORMANCE RATING, 2009**

	Restricted Use (R)	Chinch Bug	Fall Armyworm	True Armyworm	Short Horned Grasshopper	Rice Stink Bug		Rice Water Weevil (adult)	Rice Water Weevil (larvae)	Rice Water Weevil (egg)	Midge Larvae	Rice Stalk Borer	Aphids (Greenbug, Oat Bird, Cherry Aphid)	Grape Colaspis
						Adults	Eggs and Immatures							
Dimilin 2L	X							0	0	7			0	
Karate Z	X	7	8	8	7	6	8	9				5	8	
Malathion		1	2	5	6	5	5	0					4	
Methyl Parathion	X	6	6	8	6	9	6	0					7	
Mustang Max	X	7	8	8	7	6	8	9				5	8	
Penncap-M		6	6	8	6	8	6	0					7	
Prolex/Proaxis	X	7	8	8	7	6	8	9				5	8	
Sevin		6	6	5	6	7	5						1	

**Rating Scale:** 0 = no control, 10 = excellent

The performance ratings in the chart are for comparison purposes only and are not necessarily a measure of percent control.

## RICE INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
<b>Chinch Bug</b>	carbaryl Sevin 80 S	1 1/4-1 7/8 lb			Treat when chinch bugs are causing stand reductions. Methyl parathion may be applied 7 days before or after propanil. Do not use Sevin prior to or within 15 days after propanil. Flooding prior to treatment will move chinch bugs up from the soil onto the plants and increase chances of control. Flooding alone may not control chinch bugs.	14
	methyl parathion (R) Methyl 4 EC	1 pt	0.5	8		15
		PennCap-M 2 EC	2 pt	1.0-1.5	4	
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.28-2.05 oz	0.0125-0.02	62-100	Apply Karate Z, Prolex, Proaxis and Mustang Max in minimum of 5 gallons of water per acre. Do not release flood water within 7 days after application of Karate Z, Proaxis or Mustang Max.	21
		Proaxis 0.5 CS	3.2-5.12 oz	25-40		
		lambda-cyhalothrin (R) Karate Z 2.08 CS	1.6-2.56 oz	0.025-0.04	50-80	21
	zeta-cypermethrin (R) Mustang Max 0.8 EC	2.64-4.0 oz	0.0165-0.025	32-48.5	Karate Z, Prolex, Proaxis and Mustang Max can be safely applied before or after herbicide applications.	14
<b>Fall Armyworm, True Armyworm</b>	gamma-cyhalothrin (R) Prolex 1.25 CS	1.28-2.05 oz	0.0125-0.02	62-100	Treat when six or more armyworms per square foot or two or more large larvae plus headcutting are found per square foot. If insecticide is applied before propanil, check herbicide recommendations for alternative control methods. Treatment will be most successful in late afternoon. Later in the season, treat when fall armyworms are present and damaging the flag leaf.	21
		Proaxis 0.5 CS	3.2-5.12 oz	25-40		
	lambda-cyhalothrin (R) Karate Z 2.08 CS	1.6-2.56 oz	0.025-0.04	50-80	21	
	zeta-cypermethrin (R) Mustang Max 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40	Monitor rice fields adjacent to wheat for movement of true armyworms into seedling rice.	14
	methyl parathion (R) Methyl 4 EC	1 pt	0.50	8	Methyl parathion or Pencap-M (encapsulated methyl parathion) may be applied 7 days before or after propanil.	15
	PennCap-M 2 EC	2 pt	4			
<b>Short Horned Grasshopper</b>	carbaryl Sevin 80 S	1 1/4-1 7/8 lb	1.0-1.5		Treat when damage is evident. Border treatments may be beneficial. Do not use Sevin prior to or within 15 days after propanil.	14
		Sevin XLR or 4L	2-3 pt	2.7-4		
	malathion Malathion 57% EC	1 pt	0.6	8	7	
	methyl parathion (R) Methyl 4 EC	1/2-1 pt	0.25-0.50	8-16	Methyl parathion or PennCap-M (encapsulated methyl parathion) may be applied 7 days before or after propanil.	15
		PennCap-M 2 EC	1-2 pt	4-8		
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.28-2.05 oz	0.0125-0.02	62-100	Karate Z, Prolex, Proaxis and Mustang Max can be safely applied before or after herbicide applications.	21
		Proaxis 0.5 CS	3.2-5.12 oz	25-40		
	lambda-cyhalothrin (R) Karate Z 2.08 CS	1.6-2.56 oz	0.025-0.04	50-80	21	
	zeta-cypermethrin (R) Mustang Max 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40	14	

## RICE INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
<b>Rice Stink Bug (Scout in morning for best results)</b>	carbaryl		1.0-1.5		Check infestation levels weekly or bi-weekly following 75% panicle emergence using a 15-inch diameter sweep net. Apply insecticide when 2 stink bugs are found per square yard, when 5 or more stink bugs per 10 sweeps are present during the first 2 weeks after fields initially reach 75% panicle emergence or when 3 stink bugs are found per square yard or more than 10 stink bugs per 10 sweeps are present thereafter. Sampling stink bugs should be conducted between 8-10 a.m. and 6-8 p.m. to get the best estimate of the population. Repeat treatment as necessary to maintain control.	14
	Sevin 80 S	1 1/4-1 7/8 lb		2.7-4		
	Sevin XLR or 4L	2-3 pt				
	malathion		0.3-0.6			7
	Malathion 57% EC	1/2-1 pt		8-16		
	methyl parathion (R)		0.50			15
	Methyl 4 EC	1 pt		8		
Penncap-M 2 EC	2 pt		4			
gamma-cyhalothrin (R)	Prolex 1.25 CS	1.28-2.05 oz	0.0125-0.2	62-100	Apply Karate Z in minimum of 5 gallons of water per acre. Do not release flood water within 7 days after application of Karate Z, Prolex, Proaxis or Mustang Max.	21
	Proaxis 0.5 CS	3.2-5.12 oz		25-40		
lambda-cyhalothrin (R)	Karate Z 2.08 CS	1.6-2.56 oz	0.025-0.04	50-80		21
zeta-cypermethrin (R)	Mustang Max 0.8 EC	2.64-4.0 oz	0.0165-0.025	32-48.5		14
<b>Rice Water Weevil (Adults)</b>	gamma-cyhalothrin (R)		0.0125-0.02		Karate Z and Mustang Max can be safely applied before or after herbicide applications. <b>Drill Seeded:</b> Apply Karate Z, Prolex Proaxis and Mustang Max within 10 days after permanent flood when adults are present. <b>Water Seeded:</b> Apply Karate Z, Prolex, Proaxis and Mustang Max within 7 days after permanent flood when adults are present; a second application may be necessary 5-7 days later. Karate Z, Prolex, Proaxis and Mustang Max prevent adults from laying eggs.	21
	Prolex 1.25 CS	1.28-2.05 oz		62-100		
	Proaxis 0.5 CS	3.2-5.12 oz		25-40		
lambda-cyhalothrin (R)	Karate Z 2.08 CS	1.6-2.56 oz	0.025-0.04	50-80		21
zeta-cypermethrin (R)	Mustang Max 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40		14
					Treat based on leaf scar treatment threshold using Karate for drill or water seeded.	
<b>Rice Water Weevil (Eggs)</b>	diflubenzuron (R)		0.125-0.25		<b>Drill Seeded:</b> Apply Dimilin within 10 days after permanent flood when adults are present. <b>Water Seeded:</b> Apply Dimilin within 7 days after permanent flood.	
	Dimilin 2 L	12-16 fl oz		8-10.6		

## RICE INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days from Last Application to Harvest
<b>Midge Larvae</b>	There are currently no insecticides available for midge control in rice.				Midges can be a problem in water-seeded rice. To avoid midge problems, use presprouted seed, promptly apply seed as soon as field is flooded and avoid seeding during cool weather.	
<b>Rice Stalk Borer</b>	zeta-cypermethrin (R) Mustang Max 0.8 EC	4 oz	0.025	32	Application at boot stage and/or at panicle emergence for suppression of white heads.	14
	lambda-cyhalothrin (R) Karate Z 2.08 CS	1.8 oz	0.03	69	Rice stalk borer is seldom a pest.	21
	gamma-cyhalothrin (R) Prolex 1.25 CS	1.5 oz	0.015	83		21
	Proaxis 0.5 CS	3.9 oz		33		
<b>Aphids Greenbug, Birdcherry-Oat Aphid</b>	gamma-cyhalothrin (R) Prolex 1.25 CS	1.28-2.05 oz	0.0125-0.02	62-100	Karate Z, Prolex, Proaxis and Mustang Max may only provide suppression.	21
	Proaxis 0.5 CS	3.5-5.12 oz		25-40		
	lambda-cyhalothrin (R) Karate Z 2.08 CS	1.8 oz	0.03	69	Experience has shown that insecticide applications are justified when two to three greenbugs per plant occur on rice in the one- to two-leaf stage.	21
	zeta-cypermethrin (R) Mustang Max 0.8 EC	3.2-4.0 oz	0.02-0.025	32-40		14
	methyl parathion (R) Methyl 4 EC	1/2-1 pt	0.25-0.5	8-16		15
<b>Grape Colaspis</b>					Flushing fields will aid in survival of plants.	