RICE INSECTICIDE PERFORMANCE RATING, 2016

Insecticide	Chemistry	Restricted Entry Interval (hours)	Restricted Use (R)	Chinch Bug	Fall Armyworm	True Armyworm	Short Horned Grasshopper	Rice Stink Bug	Rice Water Weevil (adult)	Rice Water Weevil (egg)	Midge Larvae	Rice Stalk Borer	Aphids (Greenbug, Oat Bird, Cherry Aphid)	Grape Colaspis
Cruiser	NEO	12		6		2			6	7				8
Demacor X-100	DM	4	X	1		7			1	8		8		5
NipsIt Inside	NEO	12		6					6	7				8
Belay	NEO	12						7	7				8	4
Dimilin 2L	IGR	12	X						0	7			0	
Karate Z	SyP	24	X	7	8	8	7	8	9		6	5	8	
Malathion	OP	12		1	2	5	6	8					4	
Mustang Maxx	SyP	12	X	7	8	8	7	8	9			5	8	
Prolex/Proaxis/Declare	SyP	24	X	7	8	8	7	7	9			5	8	
Sevin	Car	12		6	6	5	6	8					1	
Tenchu	NEO	12						8						

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.
Shaded boxes indicate products recommended for specific pests in this guide.

QUICK VIEW THRESHOLD GUIDE

Insect	Threshold	Scouting Procedure
Chinch Bug	Treat when bugs are causing stand reduction.	Check seedling rice, particularly fields bordering wheat.
Fall Armyworm, True Armyworm	Treat when 6 or more armyworms per square foot early season. Late season treat when fall armyworms are damaging flag leaf.	Early season watch rice bordering wheat for migration of true armyworms into field (damage can occur quickly when armyworms move in).
Grasshopper	Treat when damage is evident.	Watch field borders, particularly near grassy areas.
Greenbug	2 to 3 greenbugs per plant on 1- to 2-leaf stage rice.	General visual observation.
Stink Bug	5 stink bugs per 10 sweeps during first 2 weeks of panicle emergence. 10 stink bugs per 10 sweeps after first 2 weeks of panicle emergence.	Sample for stink bugs during the morning hours or late evening. Stink bug levels are difficult to estimate during high daytime temperatures.
Rice Water Weevil	**Leaf Feeding Scar Method – Total Number Plants With Feeding Scars on New Leaves**	Inspect the youngest leaf on 40 rice plants at each stop for adult feeding scars. Avoid areas with thin stand. DO NOT count older leaves with scars.

Stop No.	Don't Treat – Stop Scouting When Total Is Less Than	No Decision – Keep Scouting When Total Is	Treat – Stop Scouting When Total Is More Than
1	No decision	Between	40
2	11	Between	56
3	28	Between	72
4	44	Between	89
5	61	Between	105
6	78	Between	122
7	94	Between	139
8	111	Between	156

RICE INSECT CONTROL

Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest
Chinch Bug Treat when chinch bugs are causing stand reductions.	carbaryl		1.0-1.5		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
	Sevin 80 S	1 1/4-1 7/8 lb				
	Sevin XLR or 4 F	2-3 pt		2.7-4.0		
	gamma-cyhalothrin (**R**)		0.0125-0.02		Apply Karate Z, Prolex, Proaxis, Declare and Mustang Maxx in minimum of 5 gal of water per acre. DO NOT release flood water within 7 days after application of Karate Z, Prolex, Proaxis, Declare or Mustang Maxx.	21
	Prolex/Declare 1.25 CS	1.28-2.05 oz		62-100		
	Proaxis 0.5 CS	3.2-5.12 oz		25-40		
	lambda-cyhalothrin (**R**)		0.025-0.04			21
	Karate Z 2.08 CS *(See Generic Insecticides)*	1.6-2.56 oz		50-80	Karate Z, Prolex, Proaxis, Declare and Mustang Maxx can be safely applied before or after herbicide applications.	
	zeta-cypermethrin (**R**)		0.0165-0.025			14
	Mustang Maxx 0.8 EC	2.64-4.0 oz		32-48.5		
Fall Armyworm, True Armyworm Treat when six or more armyworms per square foot. Later in the season, treat when fall armyworms are present and damaging the flag leaf.	gamma-cyhalothrin (**R**)		0.0125-0.02		If insecticide is applied before propanil, check herbicide recommendations for alternative control methods. Treatment will be most successful in late afternoon.	21
	Prolex/Declare 1.25 CS	1.28-2.05 oz		62-100		
	Proaxis 0.5 EC	3.2-5.12 oz		25-40		
	lambda-cyhalothrin (**R**)		0.025-0.04			21
	Karate Z 2.08 CS *(See Generic Insecticides)*	1.6-2.56 oz		50-80		
	zeta-cypermethrin (**R**)		0.02-0.025		Monitor rice fields adjacent to wheat for movement of true armyworms into seedling rice.	14
	Mustang Maxx 0.8 EC	3.2-4.0 oz		32-40		
Short-Horned Grasshopper Treat when damage is evident. Border treatments may be beneficial.	gamma-cyhalothrin (**R**)		0.0125-0.02		Karate Z, Prolex, Proaxis, Declare and Mustang Maxx can be safely applied before or after herbicide applications.	21
	Prolex, Declare 1.25 CS	1.28-2.05 oz		62-100		
	Proaxis 0.5 CS	3.2-5.12 oz		25-40		
	lambda-cyhalothrin (**R**)		0.025-0.04			21
	Karate Z 2.08 CS *(See Generic Insecticides)*	1.6-2.56 oz		50-80		
	zeta-cypermethrin (**R**)		0.02-0.025			14
	Mustang Maxx 0.8 EC	3.2-4.0 oz		32-40		

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest
Rice Stink Bug (Scout in morning for best results)	carbaryl Sevin 80 S Sevin XLR or 4 F	 1 1/4-1 7/8 lb 2-3 pt	1.0-1.5	 2.7-4.0	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
	dinotefuron Tenchu 20 SG	 7.5-10.5 oz	0.094-0.13			7
	malathion Malathion 57% EC	 1-1 1/2 pt	0.625-0.94	 5.3-8.0		7
	gamma-cyhalothrin (**R**) Prolex, Declare 1.25 CS Proaxis 0.5 CS	 1.28-2.05 oz 3.2-5.12 oz	0.0125-0.2	 62-100 25-40	Apply Karate Z in minimum of 5 gal of water per acre. DO NOT release flood water within 7 days after application of Karate Z, Prolex, Proaxis, Declare or Mustang Maxx.	21
	lambda-cyhalothrin (**R**) Karate Z 2.08 CS *(See Generic Insecticides)*	 1.6-2.56 oz	0.025-0.04	 50-80		21
	zeta-cypermethrin (**R**) Mustang Maxx 0.8 EC	 2.64-4.0 oz	0.0165-0.025	 32-48.5		14
Rice Water Weevil (Adults)	chlothianidin Belay 2.13	 4.5 oz	0.075	 28.4	DO NOT apply after 3rd tiller initiation. DO NOT apply to rice that has NipsIt Inside seed treatment. Hold water for 14 days after treatment.	
	gamma-cyhalothrin (**R**) Prolex, Declare 1.25 CS Proaxis 0.5 CS	 1.28-2.05 oz 3.2-5.12 oz	0.0125-0.02	 62-100 25-40	Karate Z and Mustang Maxx can be safely applied before or after herbicide applications. **Drill Seeded:** Apply Karate Z, Prolex, Proaxis, Declare and Mustang Maxx within 10 days after permanent flood when adults are present. **Water Seeded:** Apply Karate Z**,** Prolex, Proaxis, Declare and Mustang Maxx within 7 days after permanent flood when adults are present; a second application may be necessary 5-7 days later. Karate Z, Prolex, Proaxis, Declare and Mustang Maxx prevent adults from laying eggs.	21
	lambda-cyhalothrin (**R**) Karate Z 2.08 CS *(See Generic Insecticides)*	 1.6-2.56 oz	0.025-0.04	 50-80		21
	zeta-cypermethrin (**R**) Mustang Maxx 0.8 EC	 3.2-4.0 oz	0.02-0.025	 32-40	Treat based on leaf scar treatment threshold for drill or water seeded.	14
Rice Water Weevil (Eggs)	diflubenzuron (**R**) Dimilin 2 L	 12-16 fl oz	0.125-0.25	 8.0-10.6	**Drill Seeded:** Apply Dimilin within 10 days after permanent flood when adults are present. **Water Seeded:** Apply Dimilin within 7 days after permanent flood.	

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Insect	Insecticide	Formulation/Acre	Lb ai/Acre	Acres/Gallon	Application/Comments	Minimum Days From Last Application to Harvest
Rice Water Weevil (Larvae)	chlorantraniliprole Dermacor X-100	 1.5-6.0 oz/100 lb seed (see label)	0.06-0.08			
	clothianidin NipsIt Inside 5 FS	 1.92 oz/100 lb seed	0.075/100 lb seed		Use only on dry-seeded rice. DO NOT spray crop with another neonicotinoid insecticide after using NipsIt Inside. DO NOT use near fish or crawfish farms.	
	thiamethoxam Cruiser 5 FS	 0.03 mg ai/seed			DO NOT plant or sow Cruiser-treated seed by aerial application. Cruiser is NOT labeled for use in water-seeded rice. DO NOT use treated fields for aquaculture of edible fish or crustaceans. DO NOT exceed 120 lb seed per acre.	
Midge Larvae	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.	
Rice Stalk Borer	lambda-cyhalothrin (**R**) Karate Z 2.08 CS	 1.92-2.56 oz	0.03-0.04	 50-67	Application at boot stage and/or at panicle emergence for suppression of white heads.	21
	gamma-cyhalothrin (**R**) Prolex, Declare 1.25 CS Proaxis 0.5 CS	 1.28-2.05 oz 3.2-5.12 oz	0.0125-0.02	 62-100 25-40	Rice stalk borer is seldom a pest.	21
Aphids, Greenbug, Birdcherry-Oat Aphid	chlothianidin Belay 2.13	 4.5 oz	0.075	 28.4	DO NOT apply after 3rd tiller initiation. DO NOT apply to rice that has NipsIt Inside seed treatment. Hold water for 14 days after treatment.	
	gamma-cyhalothrin (**R**) Prolex, Declare 1.25 CS Proaxis 0.5 CS	 1.28-2.05 oz 3.2-5.12 oz	0.0125-0.02	 62-100 25-40	Karate Z, Prolex, Proaxis, Declare and Mustang Maxx may only provide suppression.	21
	lambda-cyhalothrin (**R**) Karate Z 2.08 CS *(See Generic Insecticides)*	 1.6-2.56 oz	0.025-0.04	 50-80	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 Maxx 0.8 EC	 3.2-4.0 oz	0.02-0.025	 32-40		14
Grape Colaspis	thiamethoxam Cruiser 5 FS	 0.03 mg ai/seed			DO NOT plant or sow Cruiser-treated seed by aerial application. Cruiser is NOT labeled for use in water-seeded rice. DO NOT use treated fields for aquaculture of edible fish or crustaceans. DO NOT exceed 120 lb seed per acre.	
	clothianidin NipsIt Inside 5 FS	 1.92 oz/100 lb seed	0.075/100 lb seed		Use only on dry-seeded rice. DO NOT spray crop with another neonicotinoid insecticide after using NipsIt Inside. DO NOT use near fish or crawfish farms.	