

LOUISIANA RECOMMENDATIONS FOR CONTROL OF INSECTS ON RICE

(Read footnotes for important information and use restrictions)

Insect	Insecticide ¹	Application Rate	Pre-Harvest Interval	Comments
Aphids	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	Treat when stand is threatened, aphids are present, and natural control is non-sufficient.
	Mustang Max ³	0.020 - 0.025 lb A.I./acre (3.2 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	
Armyworms ⁵	Methyl parathion 4EC ⁶	0.25 - 0.75 lb A.I./acre (1.0 - 1.5 pts/acre)	15 days	Treat when there is 1 armyworm per 2 plants; better results obtained when larvae are small.
	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	
	Mustang Max ³	0.020 - 0.025 lb A.I./acre (3.2 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	
	Sevin 80S ⁷	1.25 - 1 $\frac{7}{8}$ lb/acre	14 days	
	Sevin 4F ⁷	1.0 - 1.5 qt/acre	14 days	
Chinch bugs	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	For foliar sprays: flood fields first to move chinch bugs up onto plants and increase exposure.
	Mustang Max ³	0.0165 - 0.025 lb A.I./acre (2.64 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	
	Sevin 80S ⁷	1.25 - 1 $\frac{7}{8}$ lb of/acre	14 days	
	Sevin 4F ⁷	1.0 - 1.5 qt of/acre	14 days	

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Insect	Insecticide ¹	Application Rate	Pre-Harvest Interval	Comments
Grasshoppers	Methyl parathion 4EC ⁶	0.5 lb A.I./acre (1 pt/acre)	15 days	Use higher rate if most grasshoppers are large in size.
	Pennacp-M ⁶	0.25 - 0.75 lb A.I./acre (2 - 3 pts/acre)	15 days	
	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	
	Mustang Max ³	0.020 - 0.025 lb A.I./acre (3.2 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	
Rice leaf miners	Methyl parathion 4EC ⁶	0.75 lb A.I./acre (1.5 pts/acre)	15 days	Apply when eggs and larvae are abundant on seedling rice and/or when stands are being reduced to less than 15 plants per sq ft.
	Malathion 57% EC ⁸	1.56 lb A.I./acre (2.5 pts/acre)	7 days	
South American rice miner	None			Avoid planting late, particularly in areas known to be prone to severe infestation such as those in coastal areas in Cameron, Jeff Davis, and Vermilion parishes.
Rice stink bugs	Malathion 57% EC ⁸	0.6 - 0.9 lb A.I./acre (1.0 - 1.5 pts/acre)	7 days	Scout in the morning for best results. Treat when there are 30 stink bugs per 100 sweeps during first 2 weeks of heading. Treat when there are 100 stink bugs per 100 sweeps later until 2 weeks before harvest.
	Sevin 80S ⁷	1.25 - 1 $\frac{7}{8}$ lb/acre	14 days	
	Sevin 4F ⁷	1.0 - 1.5 qts/acre	14 days	
	Methyl parathion 4EC ⁶	0.75 lb A.I./acre (1.5 pts/acre)	15 days	
	Pennacp-M ⁶	0.75 - 0.5 lbs A.I./acre (1 - 2 pts/acre)	15 days	
	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	
	Mustang Max ³	0.0165-0.025 lb A.I./acre (2.64 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	

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Insect	Insecticide ¹	Application Rate	Pre-Harvest Interval	Comments
Rice water weevil (adults) ⁹	Karate Z ²	0.025 - 0.04 lb A.I./acre (1.6 - 2.56 fl oz/acre)	21 days	<p>Check 10 locations every 3-4 days. Treat when adults are present or fresh feeding scars are observed and when conditions are favorable for egg-laying (i.e. water is present or will be present soon). Scout again beginning 5-7 days after application. More than one application may be necessary.</p> <p>Management of rice water weevils with the liquid insecticide Mustang EW coated on the granular fertilizer urea and Trebon 3G may control adult weevils but not larvae. The impregnated fertilizer or Trebon granule must be applied when weevil adults and water are present in the field, immediately or within a few days after the establishment of the permanent flood. Applications made 10 or more days after the establishment of the permanent flood may not be effective as most larvae are already established in the roots.</p> <p>Trebon 3G can be applied to dry ground immediately before application of permanent flood or into a permanent flood within 1-3 days of application of flood water.</p> <p>Seed treatment is applied by a certified seed treater. Use of this product is restricted to rice planted into a dry seedbed either by drilling or dry broadcasting. The product works by killing larvae when they begin to feed on the roots. See the label for restrictions concerning crawfish production where Dermacor seed treatment is used.</p>
	Mustang Max ³	0.020 - 0.025 lb A.I./acre (3.2 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.0125 - 0.02 lb A.I./acre (1.28 - 2.05 fl oz/acre)	21 days	
	Proaxis ⁴	0.0125 - 0.02 lb A.I./acre (3.20 - 5.12 fl oz/acre)	21 days	
	Mustang EW ³	0.04 - 0.05 lb A.I./acre (3.4 - 4.3 fl oz/acre)	14 days	
	Trebon 3G	6-9 lbs A.I./acre	60 days	
Rice water weevil (larvae) ⁹	Dermacor X-100 seed treatment	Varies by variety and seeding rate; is determined by the certified treater.	Not applicable	

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LOUISIANA RECOMMENDATIONS FOR CONTROL OF INSECTS ON RICE

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Insect	Insecticide ¹	Application Rate	Pre-Harvest Interval	Comments
Rice water weevil (eggs) ⁹	Dimilin 2L ¹⁰	12 - 16 fl oz (drill seeded, dry seeded, or water seeded, delayed flood rice) 8 fl oz + 8 fl oz (water seeded, pinpoint flood, or continuous flood rice)	80 days	A flood is required. Do not apply if flooding is in progress. For drill seeded, dry seeded, or water seeded, delayed flood rice: Make a single 12 to 16 fl oz application/acre/year 2-5 days after permanent flood. For water seeded, pinpoint flood, or continuous flood rice: Apply 8 fl oz after permanent flood plus 8 fl oz 5-7 days after the first application.
Rice borers (rice stalk borer, sugarcane borer, and European corn borer)	Karate Z ²	0.03 - 0.04 lb A.I./acre (1.92 - 2.56 fl oz/acre)	21 days	Start scouting at panicle differentiation and early boot stage. Look for early signs of stem borer presence which include orange-tan discoloration around the junction of the leaf-sheath and the leaf blade. This is caused by feeding of young larvae on the inside surface of the leaf sheath. Make application before larvae enters the stalk.
	Mustang Max ³	0.020 - 0.025 lb A.I./acre (3.2 - 4.0 fl oz/acre)	14 days	
	Prolex ⁴	0.015 - 0.02 lb A.I./acre (1.54 - 2.05 fl oz/acre)	21 days	
Rice seed midges	Prolex ⁴	0.015 - 0.02 lb A.I./acre (1.54 - 2.05 fl oz/acre)	21 days	Check fields for damage during first week after planting. If stands are being reduced significantly (less than 15 plants per sq ft), drain, and replant if necessary. “(Table continued)”
	None			

¹Insecticides **are not** listed in order of effectiveness and/or preference.

²**Karate Z:** Do not use treated rice fields for the aquaculture of edible fish and crustaceans. Do not release floodwater within 7 days of application. Do not apply more than 0.12 lb A.I./acre/season. Do not apply as ultra-low volume (ULV) spray. Karate-Z can be safely used when propanil products are being used for weed control. Do not exceed 0.12 lb A.I./acre when Karate is used in addition to Prolex or Proaxis in a single season.

³**Mustang Max and Mustang EW:** Do not use treated rice fields for the aquaculture of edible fish and crustaceans. Do not release floodwater within 7 days of application. Do not make applications less than 7 days apart. Do not apply more than 0.10 lb A.I. (1.0 pints)/acre/season. Do not apply as ULV spray.

⁴**Prolex/Proaxis:** Do not use treated rice fields for the aquaculture of edible fish and crustaceans. Do not release floodwater within 7 days of application. It can be used safely when propanil products are being used for weed control. Do not exceed 0.06 lb A.I./acre when Prolex or Proaxis (either product alone) are used in a single season. Do not exceed 0.12 lb A.I./acre when Prolex or Proaxis is used in addition to Karate in a single season.

⁵Flooding is effective for armyworm control if plants are sufficiently developed.

⁶**Methyl parathion 4EC, Penncap-M:** Do not use within 14 days of applying propanil. Do not apply Penncap-M more than 6 pts/acre/year.

⁷**Sevin (carbaryl):** May kill shrimp, crabs, and crayfish. Do not use Sevin within 15 days before or after application of propanil; up to 2 applications per crop but not more often than once every 7 days.

⁸**Malathion 57% EC:** Do not use malathion within 15 days of applying propanil. Applications may not be made around bodies of water where fish or shellfish are grown or harvested commercially.

⁹To minimize losses from the rice water weevil, plant as early as reasonable and delay flooding as long as possible.

¹⁰**Dimilin 2L:** Do not use treated rice fields for the aquaculture of edible fish and crustaceans. Use at least 5 gallons total volume per acre. Do not disturb flood for at least 7 days after application. Do not release floodwater within 14 days of application.

WARNING: Always read the label for additional information. Re-entry times for workers entering treated fields should be strictly observed. Be sure to check the label for this information.

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RICE INSECT CONTROL IN RICE/CRAWFISH ROTATION FIELDS

Insect	Insecticide	Application Rate	Pre-Harvest Interval	Comments
Armyworms	<i>B.t. (Bacillus thuringiensis)</i> ¹	0.5 lb A.I./acre	0	Treat when there is one armyworm per 2 plants. Flooding is effective for armyworm control if plants are sufficiently developed.
Rice leaf miners	Malathion 57% EC ²	1.56 lb A.I./acre (2.5 pts/acre)	7 days	Apply when eggs and larvae are abundant on seedling rice and/or when stands are being reduced to less than 15 plants per sq ft.
South American rice miner	None			Avoid planting late particularly in areas known to be prone to severe infestation such as those in coastal areas in Cameron, Jeff Davis, and Vermilion parishes.
Rice seed midges				Water management- Check fields for damage during first week after planting. If stands are being reduced significantly (less than 15 plants per sq ft), drain, and replant if necessary.
Rice borers (rice stalk borer and sugarcane borer)				Plant as early as reasonable.
Rice stink bugs	Malathion 57% EC ²	0.6 - 0.9 lb A.I./acre (1.0 - 1.5 pts/acre)	7 days	Scout in the morning for best results. Treat when there are 30 stink bugs per 100 sweeps during the first 2 weeks of heading. Treat when there are 100 stink bugs per 100 sweeps later until 2 weeks before harvest.
Rice water weevil				Water management- 2 to 3 weeks after permanent flood, sample for rice water weevil larvae. If populations are 3 medium to large larvae or 5 small larvae per core, drain the field and allow the field to dry 2 to 3 weeks. (This allows soils to dry to the point of cracking). To minimize losses from the rice water weevil, plant as early as reasonable and delay flooding as long as possible.

¹*Bacillus thuringiensis*: There are several formulations on the market; follow label directions.

²**Malathion 57% EC**: Do not use malathion within 15 days of applying propanil. Applications may not be made around bodies of water where fish or shellfish are grown or harvested commercially.

WARNING: Always read the label for additional information. Re-entry times for workers entering treated fields should be strictly observed. Be sure to check the label for this information.