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]	½ - ¾ lb A.I./acre (1 - 1½ pints prod./ acre)	15 days	Treat when there is one armyworm per two 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]	1¼ - 1⅞ lb prod. / acre	14 days	
	Sevin 4F[7]	1 - 1½ qts. prod. / 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]	1¼ - 1⅞ lb of prod./ acre	14 days	
	Sevin 4F[7]	1 - 1½ qts. of prod. /acre	14 days	

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Grasshoppers	Methyl 4EC[6]	½ lb A.I./acre (1 pint/acre)	15 days	Use higher rate if most grasshoppers are large in size.
	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	Malathion 57% EC[7]	1.56 lb A.I./acre (2½ pints/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 square foot.
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[7]	0.6 – 0.9 lb A.I./acre (1 – 1½ pints/acre)	7 days	Scout in the morning for best results. Treat when there are 30 stink bugs per 100 sweeps during first two weeks of heading. Treat when there are 100 stink bugs per 100 sweeps later until two weeks before harvest.
	Sevin 80S[7]	1¼ - 1⅞ lb prod./acre	14 days	
	Sevin 4F[7]	1 – 1½ qts. prod./acre	14 days	
	Methyl 4EC[6]	¾ lb A.I./acre (1½ pints/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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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	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. Management of rice water weevils with the liquid insecticide Mustang EW coated on the granular fertilizer urea may result on control of adult weevils but not of larvae. The impregnated fertilizer 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 ten or more days after the establishment of the permanent flood may not be effective as most larvae are already established in the roots.
	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)		
Rice water weevil (eggs) [8]	Dimilin 2L[9]	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 per acre per 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 square foot), drain and replant if necessary.
	Karate Z[2]	0.03 – 0.04 lb A.I./acre (1.92 – 2.56 fl. oz/acre)	21 days	

"(Table continued)"

[1]Insecticides **<u>are not</u>** 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 seven 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. When used for the control of borers, must apply before larva bore into plant stalk.

[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 seven days of application. Do not make applications less than seven days apart. Do not apply more than 0.10 lb A.I. (16.0 fl. oz.)/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 seven 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.

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

[6]**Methyl 4EC:** Do not use within 14 days of applying propanil.

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

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

<u>WARNING</u>: 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.

"(Guide continued next page)"

RICE INSECT CONTROL IN RICE/CRAWFISH ROTATION FIELDS

Insect	Insecticide	Application Rate	Pre-Harvest Interval	Comments
Armyworms	*B.t.* (*Bacillus thuringiensis*) [1]	½ lb A.I./acre	0	Treat when there is one armyworm per two 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 (2½ pint/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 square foot.
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 square foot), 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 – 1½ pints/acre)	7 days	Scout in the morning for best results. Treat when there are 30 stink bugs per 100 sweeps during the first two weeks of heading. Treat when there are 100 stink bugs per 100 sweeps later until two weeks before harvest.
Rice water weevil				Water Management. Two to three 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 two to three 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.
<u>WARNING</u>: 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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