

## LOUISIANA RECOMMENDATIONS FOR CONTROL OF INSECTS ON STORED GRAIN

**CLEAN THE STORAGE BIN**—Good sanitation practices can prevent at least one early fumigation. Bins should be thoroughly cleaned at least two weeks prior to storing grain. All old grain, trash, and debris should be cleaned from within and around the storage bins and fumigated or burned. Spray the bin inside and out including overhead with a labeled insecticide.

**TREAT THE STORAGE BIN**—

1. Malathion (for wheat, corn, barley, rye storage) Treat at the rate of 1 gallon of 57% (5 lbs. per gallon) EC in 25 gallons of water.
2. Tempo SC Ultra- Apply 8-16 ml of concentrate per 1000 square feet. See label for the amount of water to add in preparing the spray solution.
3. Storcide II – Mix 1.8 fluid oz. per gallon water per 1000 sq. feet of bin surface. (See label for specific application instructions).

**GRAIN PROTECTANTS**—Grain that is to be held in storage should be protected from stored grain insects. An approved grain protectant applied to the grain at the time of storage will help prevent an early infestation. Grain must be at the proper moisture content for storage. Do not apply before high temperature drying. High temperature and high moisture content grain will shorten the residual life of grain protectants. See insecticide labels for specific application instructions. Most grain protectant solutions should be applied to the grain as it enters the storage bin on the conveyor belt, unless it is applied as a surface treatment.

- <sup>1</sup> 1. B.t. (*Bacillus thuringiensis*) sold as Dipel and others. Follow label directions for surface treatment only to control Indian meal moth.
2. Actellic 5E:  
Corn<sup>2</sup> and Grain Sorghum: 9.2 to 12.3 oz. per 5 gallons water per 1,000 bushels; as a surface treatment for Indian Meal moth 3 oz. per 2 gallons of water per 1000 square feet.
3. Storcide II (21.6% chlorpyrifos-methyl and 3.7% deltamethrin)  
Wheat – 12.4 fluid oz. per 5 gallons water per 1000 bushels  
Barley – 9.9 fluid oz. per 5 gallons water per 1000 bushels  
Oats - 6.6 fluid oz. per 5 gallons water per 1000 bushels  
Rice - 9.3 fluid oz. per 5 gallons water per 1000 bushels  
Grain Sorghum – 11.6 fluid oz. per 5 gallons water per 1000 bushels
4. Malathion 6% Grain Dust<sup>3</sup>  
Wheat, Corn, Oats – 10 pounds of dust per 1000 bushels as grain is being loaded or turned into final storage. (See label for further mixing instructions)
5. Pyrenone ( 6% pyrethrins and 60% PBO) – Short term knock-down control. Degrades rapidly.  
Barley, corn, rice, sorghum and wheat – mix 1 part Pyrenone with 29 parts water. Apply 4-5 gallons per 1000 bushels.

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<sup>1</sup> Actellic should give 9 to 12 months control of all stored grain insects in Louisiana (except lesser grain borer).

<sup>2</sup> Not labeled or effective for corn stored in the shuck.

<sup>3</sup> This insecticide may not be a suitable grain protectant because it breaks down rapidly and many stored-grain insects have developed high resistance to it in other states.

### FUMIGATION

<b>Insect</b>	<b>Fumigant*</b>	<b>Amount Per 1,000 Bushel Grain</b>	<b>*Minimum No. of Days Bin Must Be Closed During Fumigation</b>
Rice weevils	Aluminum	Follow label instructions.	4 days-check label for additional information. (Do not fumigate below 40°F)
Lesser grain borer	Phosphide		
Bran beetles	(Phostoxin)		
Saw-toothed grain beetle			
Flat grain beetle			
Angoumois grain moth			
Indian meal moth			

**\*Note: Bins must be gas tight. Phosphine gas is deadly to people and other animals. Follow all safety and application guidelines on the label.**