



- LEADERS IN BUG FREE GRAINS -

PROTECT YOUR PROFITS BY PROTECTING STORED RICE

KNOCK DOWN INVADING INSECTS

Fight stored grain insects with the best products on the market.



GRAVISTA® INSECTICIDE PRODUCTS

- 3-in-1 combination products with an insect growth regulator (IGR), adulticide and synergist.
- Eliminates labor intensive tank-mixing and reduces infestation rebound and subsequent costly retreatments.
- Proactive, cost-effective, labor saving process helps ensure the quality of your stored rice.
- Ideal for rice stored six months or longer.



CENTYNAL™ SYNERGIZED INSECTICIDE

- Combines both an adulticide and a synergist to provide effective knockdown and will help control even the toughest labeled stored product insects.
- Brings a much-needed boost to short-term storage or problematic infestations.
- May be tank-mixed with other products.



CENTYNAL™ EC INSECTICIDE

- As an emulsifiable concentrate, it kills a broad spectrum of labeled stored product insects.
- Broad-use pattern.
- May be tank-mixed with Diacon® IGR and PBO-8® Synergist.

FLEXIBLE APPROACH TO INSECT MANAGEMENT



PREPARE FOR STORAGE

Prep bins by cleaning out and treating empty bins with Gravista® Insecticide products. Don't forget about cleaning handling equipment.



LONG-TERM STORAGE

Gravista® products offer residual control of labeled insects and are ideal for long-term storage (> than six months).



SHORT-TERM STORAGE

If holding grain < six months, be sure to protect rice with Centynal™ Synergized Insecticide.



RECOVERY

Untreated rice that has insects may be treated with Centynal™ product of choice as rice is being transferred from storage to kill labeled adult insects.



PREVENT INSECT DAMAGE AND INCREASE PROFITABILITY

No matter your storage strategy, we offer insect control solutions
for increased profit protection.

KNOW THE ENEMY



RICE WEEVIL

Sitophilus oryzae

Adults feed on whole and broken kernels and can infest grain in the field, capable of flight; larvae grow from eggs deposited inside kernels.



RED FLOUR BEETLE

Tribolium castaneum

Adult beetles cause food to have pungent odor, foul taste and potentially a pink coloration.



LESSER GRAIN BORER

Rhyzopertha dominica

Adults and larvae bore into grain kernels, feed on grain dust leaving behind powdery residue; a sweet musty odor.



EFFECTS OF LESSER GRAIN BORER ON SHRINK AND % MILLING YIELD

We conducted a study to determine potential losses due to infestation of stored rough rice by the lesser grain borer, and the efficacy of Centynal™ EC Insecticide against these insects when used as grain protectant.

Five replications and LSD statistical analysis showed significance between treated and untreated:

SHRINK AND % MILLING YIELD STUDY RESULTS

TREATED NO LIVE INSECTS	UNTREATED INFESTED RICE
1% loss in weight of rough rice after 120 days	4.2% loss in weight of rough rice after 120 days of infestation
0% reduction in milling yield percentage of milled rice	5.2% reduction in milling yield percentage of milled rice
0% lesser grain borer population	960% growth in lesser grain borer population over 120 days

AVERAGE MILLING AND HEAD RICE YIELD ± SEM OF ROUGH RICE AFTER TREATMENTS

	MILLING YIELD (%)	HEAD RICE YIELD (%)
No live insects in rice	72.0 ± 0.2 a	66.6 ± 0.6 a
Rice infested with lesser grain borer	66.8 ± 0.9 b	63.2 ± 0.9 b
Yield loss due to insect damage	71.6 ± 0.1 a	67.5 ± 0.2 a

Means followed by different letters are significantly different (LSD test).

To learn more about all of our stored grain solutions
for insect control, visit BugFreeGrains.com.

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