



**CENTRAL**  
LIFE SCIENCES

STORED GRAIN  
SOLUTIONS



# **THE GRAIN PROTECTION PROTOCOL.**

*WHY IT MATTERS. HOW IT WORKS.*

# PUTTING YOUR PROTOCOL INTO ACTION.

Storing grain on-farm gives you the flexibility you need to maximize the profitability of your crops. But without a plan to protect grain quality from insect damage, the cost of storage-related losses can quietly erode, or even eliminate, the gains of a higher market price at every point of sale.

## Why grain protection matters

Insects are a legitimate threat to the quality and volume of stored grain. In fact, Central Life Sciences trial data shows that in as little as 30 days, insects can cause a 2.2% dry-matter shrink loss in corn, equating to about 10 cents per bushel.<sup>1</sup> Those cents per bushel can quickly add up: insects are responsible for up to \$2.5 billion in lost wheat value every year.

**\$2.5 BILLION<sup>2</sup>** Up to \$2.5 Billion lost in wheat damage annually due to insect damage.<sup>2</sup>



<sup>1</sup> Central Life Sciences Trial Data, 2023 study on maximizing profits and reducing insect shrink through insect control

<sup>2</sup> USDA Agricultural Research Service, 2007 study on stored grain losses: <https://www.ars.usda.gov/research/publications/publication/?seqNo115=196465>



## Introducing the Grain Protection Protocol

The most impactful, convenient and cost-effective way to address the threat of insects is the proactive one: a strong Grain Protection Protocol. But what does it consist of, and how can it be implemented? Follow this four-part plan to ensure the best protection possible each season.

### PRE-HARVEST

**Reduce Risk +  
Start Clean**

### HARVEST

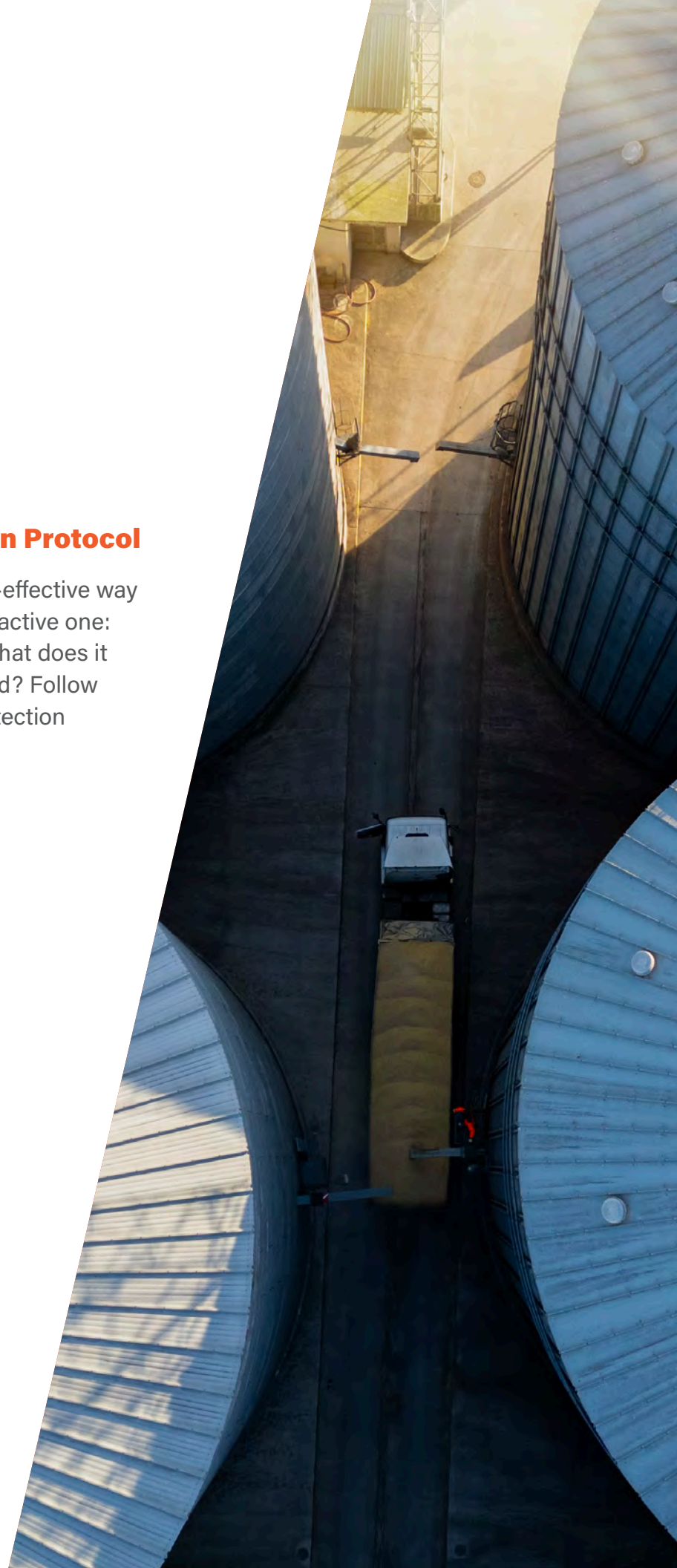
**Protect at Load-in +  
Lock in Value**

### STORAGE

**Store With Confidence +  
Preserve Quality**

### LOAD-OUT + DELIVERY

**Maximize Return +  
Cash In**



PRE-HARVEST

# Reduce Risk + Start Clean

Preparing for insects — instead of just reacting to them — gives you the greatest possible advantage going into storage time, which is why this first stage of the protocol is so important: it's simple, crucial, and helps you get ahead of insects each season.

## OVERVIEW

Conduct a complete bin cleanout and maintain bin structures and machinery.

## PRIMARY OUTCOME

Start clean at pre-harvest to help prevent and control all insect infestations before and during grain fill.

## PRIMARY ACTIONS

- ✔ Vacuum or brush all remaining grain bin structures to remove existing grain with potential insect pressure.
- ✔ Clean the interior and exterior of all grain bin equipment/structures — sub-floors, augers, walls, cracks and crevices.
- ✔ Assess grain bin holding capacity and determine storage timeframe to establish and document the proper cleaning frequency.
- ✔ Initiate the S.L.A.M. (Sanitation, Loading, Aeration, Monitoring) pest management procedure.
- ✔ Test in-line grain application equipment and calibrate to recommended application rate to ensure maximum efficacy.

## RECOMMENDED SOLUTIONS

Gravista® Insecticide



# Protect at Load-in + Lock in Value

It's a fact: Insects come in with the crop during harvest. Their eggs can lurk in stored grain and survive even the toughest winters, hatching later to do serious damage to grain quality. This stage is your best opportunity to prevent future treatment sprays and protect the profitability of your grain.

## OVERVIEW

Remove insects from harvested grain and prevent future insect pressure

## PRIMARY OUTCOME

Defend grain mass and quality from insect infestations. Combat pests entering the storage process, preventing system infestation and ensuring insect-free grain is stored.

## PRIMARY ACTIONS

- ✔ Apply grain with insecticide following its exit from the dryer and before it enters the storage facility.
- ✔ Evenly treat incoming grain with an insecticide to activate residual protection and help reduce future insect pressures.
- ✔ Treatment can be made in the auger or on the belt, with free-fall grain applications ensuring maximum grain coverage.
- ✔ Monitor grain moisture to ensure maximum efficacy of insecticide application.

## RECOMMENDED SOLUTIONS

- Diacon® IGR
- Diacon® IGR PLUS
- Diacon®-D IGR
- Gravista® Insecticide



## STORAGE

## Store With Confidence + Preserve Quality

It's what you do every season: monitor your stored grain to ensure its quality. But when you take this step as part of a Grain Protection Protocol, you take it with added confidence. Follow these guidelines to help keep your stored grain clean and profitable through storage.

### OVERVIEW

Monitor grain condition to preserve grain mass and reduce potential dockage.

### PRIMARY OUTCOME

Ensure stored grain maintains quality, test weight and lengthened market flexibility to capture maximum profit opportunities.

### PRIMARY ACTIONS

- ✓ Conduct treatments on the exterior of all storage facilities at regular intervals.
- ✓ Implement ongoing probe or sample testing to ensure continued grain quality.
- ✓ Apply insecticides via ventilation in grain storage subfloors to help prevent bottom-up pest infestations.
- ✓ Treat grain storage headspace to restrict insect pressure from the top.

### RECOMMENDED SOLUTIONS

- Gravista® Insecticide
- InseLux® Fog & Mill Spray



# Maximize Return + Cash In

You took the effort to protect it. Now inspect the results. At this stage, you can take advantage of last-minute opportunities to avoid dockage fees and deliver the best grain possible.

## OVERVIEW

Test and inspect to ensure minimal damage and dust.

## PRIMARY OUTCOME

Reduced grain damage and dust ensures limited dockage and clean, market-ready grain for maximum profit potential at every delivery.

## PRIMARY ACTIONS

- ✓ Inspect grain to ensure no pests have survived stages 1-3 or new infestations have occurred.
- ✓ If insects are detected, determine reactionary treatment prior to delivery or during load-out to reduce dockage. Load-out treatments will continue to protect grain.

## RECOMMENDED SOLUTIONS

Centynal™ Synergized Insecticide





## Learn how to implement your own Grain Protection Protocol.



Answer a series of short questions and the Central Life Sciences team will help you get started.

Visit [GrainProtection.com](https://www.GrainProtection.com) to learn more.



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