

iGRAIN Smart App

Shows infestation and storage *RISK FACTOR*



How it works

The iGRAIN Monitoring System is making an intelligent evaluation of all monitoring data and calculating the **RISK FACTOR**.

Data from the monitoring system is sent to the iGRAIN Cloud Server. Here the calculations are made, and the APP is executed, and updated in real time when the APP is contacted. The client must use a password the first time he accesses the APP from a new device.

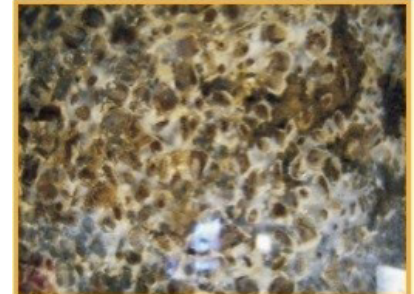
Important:

The APP is intended to work with the iGRAIN SNIFFER (CO2 Infestation Monitor). It is the CO2 sensor that makes the calculations and report conclusive. This means a given silo plant can monitor the grain based on either the iGRAIN SNIFFER that also has one temperature sensor included, or the data can be supplemented with any existing temperature monitoring system. This increases the validity and the reporting quality a little.

- Calculates the infestation
- Showing the stored grain Risk Factor (1-6)
- Showing the maximum safe storage time
- Showing your inventory

How to benefit from iGRAIN Smart App**iGRAIN HACCP App****Insects**

Insects pose a big risk in all types of grain. HOT SPOTS are most often started as an insect attack, and later develops into fungus attack

**Fungus**

When a HOT SPOTS develops inevitably the fungus will lead to Mycotoxin contamination.

Problem:

During last decades the entire grain storage industry has experienced increasing problems with their stored grain. More spoilage and shrinkage have been seen than before. Those losses are almost entirely due to the biologic activity (attacks) from insects and fungus.

It is therefore more necessary than ever to monitor the stored grain. And it must be done in a way that grain managers understand and give them the best possible tool to act quickly when infestation is detected.

Many grain storage facilities, whether trades or millers, are still using "first in first out" principles for consumption/sale ... and this is not good idea since good grain may be consumed instead of slightly infested grain that should have been consumed now rather than waiting.

If grain consumed in the best sequence, i.e. the grain that is currently most at risk... for sure this will save serious spoilage in the long run !

Solution:

The iGRAIN APP: IG-HACCP-APP is solution to this problem:

1. The APP will always point to the most infested grain
2. The APP calculates the RISK FACTOR (A number between 1 and 6. 6 is worst)
3. The APP predicts a maximum storage time based on current condition, climatic condition and other data available.

Altogether, this APP, (whether used on a smartphone or on a PC) will provide the grain manager with validated data so operational decisions about the grain can be taken in a safe and well document away.