Angoumois Grain Moth (*Sitotroga cerealella*)

**Biology**
- They can be found flying around infested stores and infest crop before harvest.
- They are small, yellowish or straw-coloured.
- Eggs are flat, oval and white when freshly laid then turns reddish in colour.
- The larva is yellowish, penetrates & feed and completes its development inside the grain.
- The rate of development is dependent on temperature, humidity and host.
- At 25°C and a relative humidity of 70% larvae take about 30 days to develop in maize.
- The moths are small, yellowish or straw-coloured.
- The adult lives up to 15 days and female lays up to 200 eggs.

**Distribution**
- In Kenya it can be found in (Ahero, Bunyala, Kirinyaga, Kisumu, Kilifi, and Kwale counties), Tanzania (Morogoro, Kilimanjaro, Arusha, Mbeya, Moshi) and Uganda.(lake Kioga, Buguri, Butalenja and lira districts).

**Damage on rice crop**
- The larva or caterpillar produces a visible ‘window’ just below the surface of the grain when it constructs the chamber in which it pupates.
- Produces flour dust from internal feeding which spills from the grain once moth emerges.

**Management Strategies**
1. **Cultural methods**
   - Prevent pest entry by sealing the store with insect-proof gauze.
   - Store in hermetic bags.
   - Store separately old and new grain.
   - Do not leave rice in field after drying.

2. **Chemical control**
   - Dust grains with malathion 2% + Pyrethrins 0.2% (like Nova Super Blue cross dust, Pydust, Super Malper Dust dust) at 1kg per tonne (3-6 months under ideal (cool, dry) conditions.
   - Dust with Actelic gold dust (Pirimiphos Methyl: 7mg/Kg, Thiamethoxam: 2mg/Kg).
   - Fumigate stores with phosphine to eliminate existing infestation.
   - Dust rice grains using Actellic 1% at 50g/90kg bag, Skana super, Spintor dust in storage.

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**Fig 1. Grain moth adult**
- Source: [bru.gmpra.ksu.edu](http://bru.gmpra.ksu.edu)

**Fig 2. Grain moth adult**
- Source: [agric.wa.gov.au](http://agric.wa.gov.au)

**Fig 3. Grain moth infested rice**