



Fly Control in Egg Laying Facilities

Why is Fly Control Important?

- Flies are vectors of many disease-causing pathogens
 - Avian influenza, *E. coli*, *Salmonella*
- Flies increase the feed conversion ratio
- Flies leave 'spots' on eggs, reducing egg quality grading
- Flies are an overall nuisance, reducing egg output and worker efficiency

House Fly Biology

Adults.

Mobile; feed and breed during the day, roost at night

Eggs.

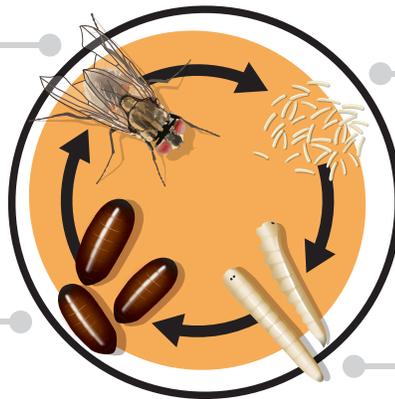
Stationary; laid in moist, organic substrate, like manure

Pupae.

Stationary; move to drier substrate for pupation

Larvae.

Mobile; consume rotting organic matter in moist conditions



House Flies by the Numbers

When uncontrolled, house fly populations can explode in numbers (Fig. 1). It is important to have an Integrated Pest Management (IPM) in place to prevent insecticide resistance & maintain insect control across the entire facility. In addition to over-bird & premise applications, insect growth regulators (IGRs) should be implemented. The flies you see swarming in a facility are only 15% of the total fly population (Fig. 2). This means that 85% of flies are in the egg, larva, or pupa stage and by using IGRs, you can reduce the number that reach adulthood.

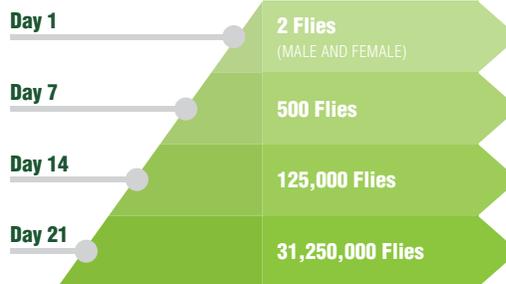


FIG 1. HOUSE FLY POPULATION GROWTH WHEN UNCONTROLLED

ASSUMES OPTIMAL CONDITIONS

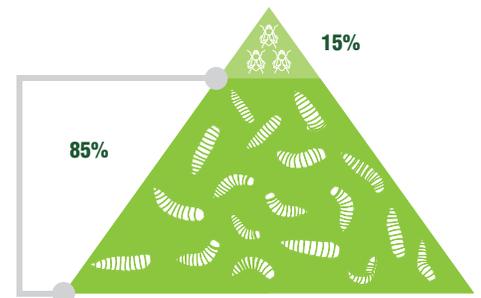
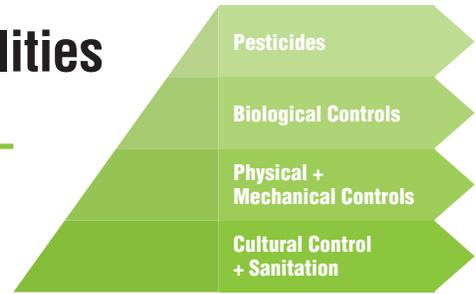


FIG 2.



Fly Control in Egg Laying Facilities



Integrated Pest Management Approach

Integrated pest management (IPM) involves the use of all types of control techniques, including non-chemical approaches, to keep flies out of egg laying facilities.

OVER-ANIMAL INSECTICIDES



ULD® BP-100

- Oil-based, ready-to-use fogging concentrate
- Synergized formula contains pyrethrins, a botanical insecticide



EverGreen® Pro 60-6

- Concentrated, water-based contact insecticide
- Synergized formula contains pyrethrins, a botanical insecticide

FLY BAITS



Decimari® Fly Bait

- First fly bait with dual modes of action
- Contains NyGuard® IGR
- Three convenient application methods: scatter, paint-on or bait station use

INSECT GROWTH REGULATORS



NyGuard® IGR Concentrate

- Keeps insects in the juvenile stage, making them unable to reproduce and easier to kill
- May be sprayed on manure, concrete or wherever flies are breeding or resting
- May be mixed with other insecticides unless specified by the label



Flynexx® Granules

- Insect growth regulator disrupts the fly larvae molting process
- Water soluble granule for dry scattering or spraying
- Apply to manure and other fly breeding site

PREMISE SPRAYS



Onslaught® FastCap Spider & Scorpion Insecticide

- Fast-acting microencapsulated formula provides quick kill and residual control
- For use indoors and outdoors



Tobex® Multi MOA Concentrate

- Convenient all in one product provides quick kill and residual control
- Dual mode of action formula contains NyGuard IGR



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