

The IPM Solution for Maggot Mayhem



A **Copesan** Pest Solutions Partner

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Pest Flies of the Urban Environment

Filth Flies	Small Flies
House Flies	Small Fruit Fly
Bottle Fly	Black-eyed Fruit Fly
Stable Fly	Phorid Fly
Lesser House Fly	Drain or Moth Fly
Flesh Fly	Fungus gnats

Why Control Flies?

- Disease
- Food Borne Illness
- Economic Losses
- Aesthetics

Why IPM?



- The Goal is No Flies!
- High Potential for Insecticide Resistance
- Complexity of the infestations

Thresholds: Maryland Schools

Area	Threshold for House Flies
Classroom	3
Infirmary	1
Kitchen	1
Maintenance areas	5
Trash cans	1
Dumpster	5

Filth Fly: Ag. Sites

- Index Cards: 100 spots in a week
- Jar Traps: 250 flies
- Sticky Paper and Walking Method: 25-75 flies captured along a 1,000 foot walk

Strategies

- Sanitation
- Design
- Exclusion
- Traps
- Biological
- Chemical

Sanitation

- Organic Debris
Removal

50% Reduction in fly
populations with
improved sanitation
alone (feedlots)

Design

- Build it Right
- Maintain It

Exclusion

- Screening
- Air Power
- Inspection of incoming goods

Traps

- Jar
- Light
- Cone
- Sticky

Biological Control

- Parasites (filth flies)
- Insect Growth Regulators (Filth and Small Flies)
- Bioremediation

Chemical

- Attracticide
- Targeting through baits
- Space Treatment
- Mop Water Additives

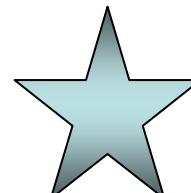


Why Isn't IPM
Always Successfully
Practiced?



Premise For the Next Reality Show: IPM with the Stars

- A celebrity matches up with a professional pest control technician to perform fly control. Their efforts are judged by a panel of PMP's and the viewing public. Teams are scored based on the effectiveness of their IPM techniques.
- People will see that IPM is easy for some and difficult for others.



Why is Successful IPM Difficult for Some?

- May require structural /sanitation changes which are major capital investments
- Source is off site
- Parties involved want the “easy” button

Costs

- Health Care Facilities/ Slab and Soil Excavations:
\$25,000 -\$75,000

Hospital

- Re-routing grease trap (\$500.00)
- Had installed over 35 insect light traps

Retail Food Service

- Small Food Service Store/Floor replacement: \$60,000 (includes loss of revenue)
- Grease trap leak
And soil removal:
\$10,000.00



Summary

- Complex pest group with pesticide resistance issues which lends itself well to IPM strategies
- Major structural deficiencies can be an issue for small fly IPM and delay IPM fruition
- Off-site breeding issues can be an issue for filth flies and interfere with complete success