

# 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

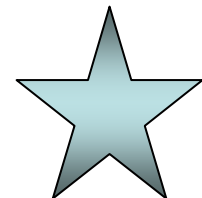


Why Isn't IPM  
Always Successfully  
Practiced?



# 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