

**University of California, Merced**  
**Integrated Pest Management (IPM) Matrix – Structural Pest Control**

**IPM Strategy Overview**

Step	Description
Step 1: Inspection & Monitoring	Identify pest activity, entry points, and breeding sites.
Step 2: Physical & Mechanical Controls	Use non-chemical methods to reduce pest populations.
Step 3: Chemical Controls	Apply least-toxic EPA-registered products first; escalate only if necessary.

**Tier Ratings for Chemical Controls**

- Green Tier – Least toxic
- Yellow Tier – Moderate toxicity
- Red Tier – Higher concern (use only when essential)

**Notes**

- All chemical products listed are EPA-registered.
- Least-toxic options are prioritized in alignment with UCM's sustainability goals.
- Rodenticides and Red Tier products are used only when necessary and require approval.

**Structural Pest Control Matrix**

Pest	Step 1: Inspection & Monitoring	Step 2: Physical & Mechanical Controls	Step 3: Chemical Controls (Least-Toxic First)	Step 4: Chemical Controls (Secondary Option)
Flies	Inspect breeding sites (e.g., drains, trash receptacles)	UV light traps, fly swatters	TC 262 – ■ Yellow Tier	—
Ants	Identify trails and entry points	Bait stations	Transport GHP Insecticide – ■ Green Tier	Onslaught FastCap Insecticide – ■ Yellow Tier
Cockroaches	Inspect kitchens, bathrooms, and crevices	Sticky traps	Transport GHP Insecticide – ■ Green Tier	Onslaught FastCap Insecticide – ■ Yellow Tier
Spiders	Monitor for webs and hiding areas	Web removal	Transport GHP Insecticide – ■ Green Tier	Onslaught FastCap Insecticide – ■ Yellow Tier
Rodents	Look for droppings, gnaw	Snap traps, live traps, exclusion methods	Cadet 3 Rodenticide – ■ Yellow Tier	

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	marks, and entry points			
Wasps	Inspect eaves, attics, and outdoor structures	Nest removal (with PPE), traps	Wasp Freeze – Insecticide ■ Red Tier	
Bedbugs	Inspect mattresses, furniture seams	Heat treatment, residual sprays	Alpine WSG – ■ Red Tier / Gentrol IGR - Insecticide ■ Green Tier	
Beetles	Inspect cracks, baseboards, pantries, and storage areas	Sticky traps,	Transport GHP Insecticide – ■ Green Tier	Onslaught FastCap Insecticide – ■ Yellow Tier
Fleas	Inspect pets, bedding, carpets, outdoor areas	Vacuuming, Steam clean carpets if infestation is moderate	Onslaught FastCap Insecticide – ■ Yellow Tier	
Gnats	Monitor drains and potted plants	Drain covers, fans	TC 262 – ■ Yellow Tier	—