



# FALL & WINTER IPM CHECKLIST

ESSENTIAL ACTIONS FOR OCTOBER THROUGH WINTER

Proactive IPM now prevents spring pest pressure. Use this checklist to stay ahead.

Note: Soil and canopy temperatures often run warmer than ambient air. These temperature ranges are guidelines, not hard limits—always check actual conditions before applying biologicals or drenches.

GENERAL SANITATION	MONITORING & SCOUTING
<ul> <li>□ Remove plant debris, weeds, and algae from benches, floors, and containers.</li> <li>□ Clean under benches and around greenhouse perimeters to eliminate pest refuges.</li> <li>□ Disinfect tools and propagation surfaces before use (use OMRI-listed products where possible).</li> <li>□ Eliminate standing water; improve drainage in all zones.</li> <li>□ Seal cracks and entry points in structures to reduce pest ingress.</li> </ul>	<ul> <li>□ Place Horiver Yellow cards at canopy level and near entry points (1 per 1,000 sq. ft.); adjust height as plants grow.</li> <li>□ Use blue cards for thrips in high-risk crops.</li> <li>□ Check cards weekly for fungus gnats, whiteflies, and thrips.</li> <li>□ Inspect foliage and media for stippling, scarring, larvae, and eggs.</li> <li>□ Record pest pressure by zone and adjust strategy accordingly.</li> </ul>
ENVIRONMENTAL ADJUSTMENTS	TIMING & TEMPERATURE



Note: Soil and canopy temperatures often run warmer than ambient air. These temperature ranges are guidelines, not hard limits—always check actual conditions before applying biologicals or drenches.

## **HEATED GREENHOUSE:**

### Spider mites:

 Anso-Mite – active from 43°F up to 95°F.

#### Thrips:

- Limonica best at 59-86°F.
- Thripex only if temps 59-77°F.

Important: Do not overlap generalist predatory mites in the same zone.
Microbial:

- Apply Entonem drenches for thrips and fungus gnats if media ≥50°F.
- Isarid during mild, humid conditions for thrips, aphids, and whiteflies.

### Plant Strengthener:

 Dune during mild, humid periods to strengthen plant cell walls and improve resistance to chewing and sucking insects.

Parasitoids for Whitefly & Aphids:

- Aphipar-M effective 59-82°F.
- En-Strip effective 64–86°F.

#### **STOCK NOW**

- Horiver Yellow cards
- Blue sticky cards
- Isarid (microbial option for thrips, aphids, whiteflies)
- Dune (strengthen plant cell walls and improve resistance to chewing and sucking insects.)

#### **ORDER AS NEEDED**

- Entonem: Apply when media ≥50°F.
- Anso-Mite: Active from 43°F; ideal for cool-season spider mite prevention.
- Limonica: Active 59–86°F; best for thrips in cool–moderate temps.
- Thripex: Use only in heated zones 59-77°F.
- En-Strip: Effective 64-86°F for whiteflies.
- Aphipar-M: Effective 59–82°F for aphids.

# UNHEATED OR MINIMALLY HEATED

- Complete sanitation before deep cold sets in.
- Apply Entonem drenches in fall when media is ≥50°F.
- Use Horiver cards to monitor overwintering pest movement.
- Hold predator releases until warm spells in protected microclimates:
  - Anso-Mite for spider mites (active from 43°F).
  - o Limonica for thrips (≥59°F).
- Microbial options during mild periods:
  - o Isarid for thrips, aphids, whiteflies.
  - Dune to strengthen plant cell walls and improve resistance to chewing and sucking insects.

# OUTDOOR CONTAINERS & BEDS

- Perform fall cleanup: remove mulch, debris, and weeds.
- Plan for spring applications.
- Monitor overwintering pests under snow or mulch layers.
- Use physical barriers or covers to reduce pest entry in spring.
- If still in production & experiencing pressure, utilize cold-tolerant predators
  - Anso-Mite for spider mites (active from 43°F).
  - Limonica for thrips (≥59°F).
  - o Entonem ≥50°F
  - Aphipar-M ≥ 59°F.

This guide is provided by NaturalEnemies.com to support growers with real-world biological control strategies. All content is based on verified protocols and field-tested insights. For more resources, product support, or scouting tips, visit www.NaturalEnemies.com.

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