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Mites

Pest & Natural Enemy ID

Greenhouse Scout School

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Wide IPM Project
Regents, University of California



Part 2: Natural Enemy ID

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Predatory Mites (Acari: Phytoseiidae)

Neoseiulus californicus



Orange, peach, or pink in color.

Neoseiulus fallacis



Pale white to red/brown in color.

Amblyseius andersoni

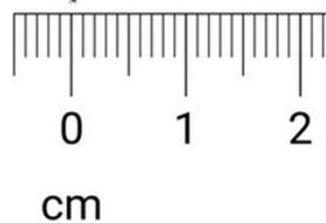
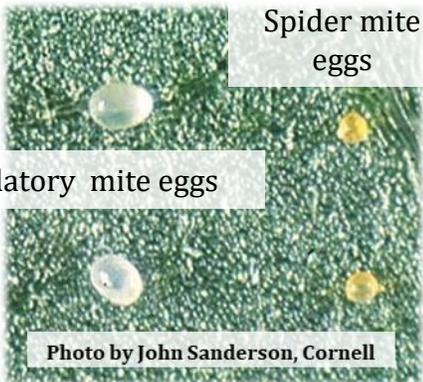


Pale white/beige in color.

Galendromus occidentalis



Beige/red in color.



Appearance: Adults < 1 mm, larvae 6-legged, nymphs/adults 8-legged. Color variable by species and what they consumed.

Life cycle: All stages (egg, larva, two nymphal stages, adult) visible. Duration varies by species.

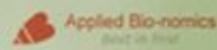
Monitoring: Check spider mite infestations, focus on leaf undersides, predators are fast moving, eggs oval and larger than pest mite eggs.



Phytoseiulus persimilis

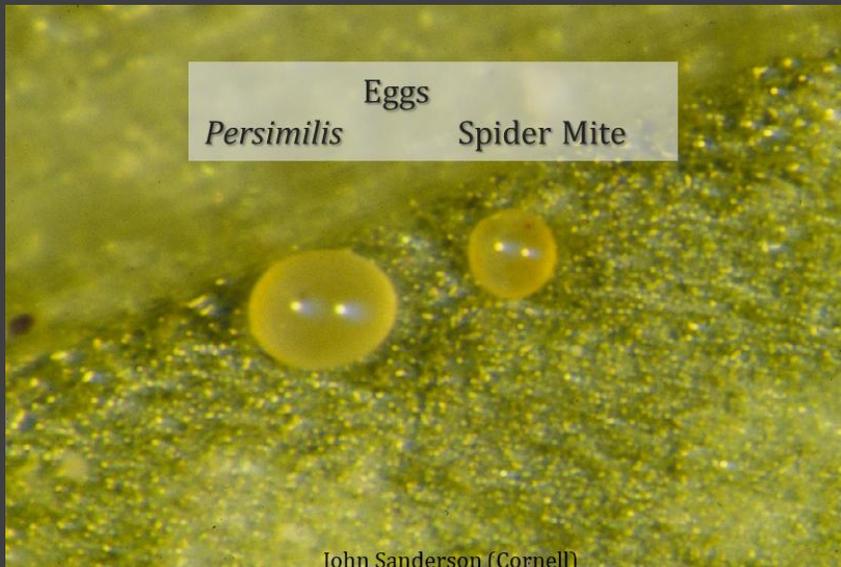


David R. Gillespie





UC Statewide IPM Project
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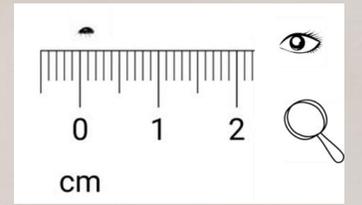
Eggs
Persimilis Spider Mite

John Sanderson (Cornell)



John Sanderson (Cornell)

Specialist, red color, eggs oval and ~2x size spider mite eggs.

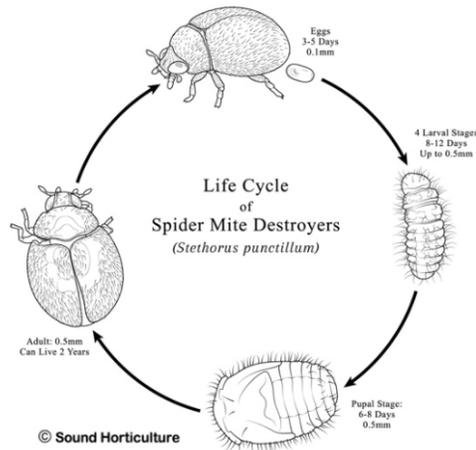


Stethorus punctillum
(Coleoptera: Coccinellidae)
aka Spider Mite Destroyer

Appearance: Adults ~1.5 mm, black and hairy (sometimes look grayish); eggs oval (~0.4mm), pale initially, dark before hatching; larvae oblong and dark brown to gray, pupa oval, flattened and vary from black to brown with reddish hairs.

Life cycle: 20-14 days to complete at 70-80°F (21-26°C). Adult females can live up to 2 years, lay over 1000 eggs and need 20-40 mites a day to reproduce.

Monitoring: Focus on spider mite infestations to see eggs, larvae and possibly adults. Check along leaf veins on leaf undersides, pupae on lower leaves. Adults might get caught on sticky cards.



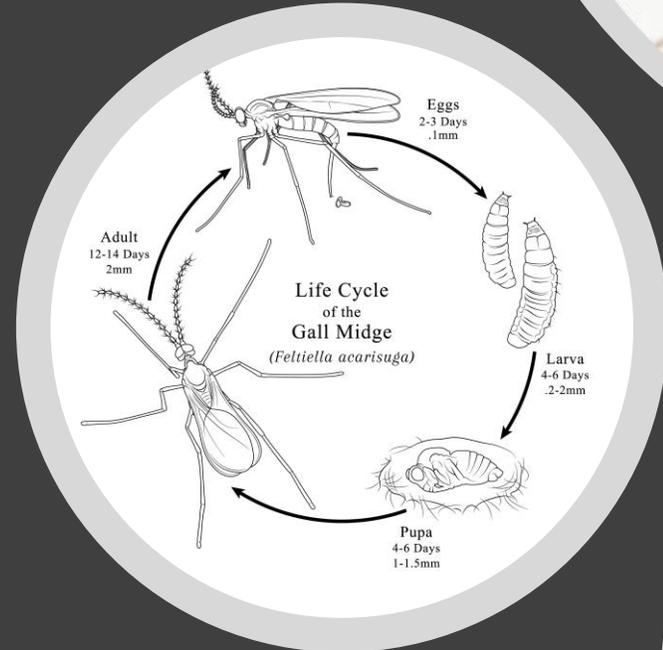
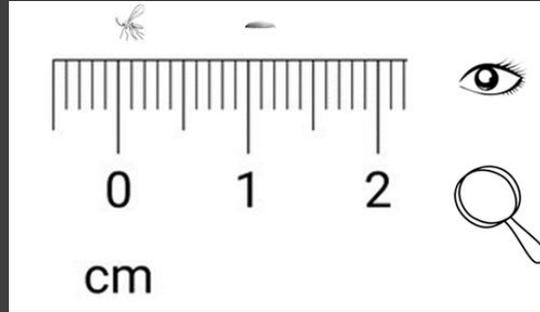
Feltiella acarisuga
(Diptera: Cecidomyiidae)



Appearance: Adults resemble fungus gnats but lack the Y-shaped vein, ~ 2 mm, pink-brown color; larvae predatory, yellow-orange color, ~.25-2 mm, pupae (~1-1.5 mm)in white cocoons along leaf veins.

Life cycle: Eggs laid near spider mite colonies, 3 larval stages, pupa and adult; developmental time 2-4 weeks 59-77°F (15-25°C).

Monitoring: Inspect spider mite infestations for eggs and larvae under leaves. Adults may be found on sticky cards.



BugGuide Photo#1773566 © Charley Eiseman: (www.charleyeiseman.com)

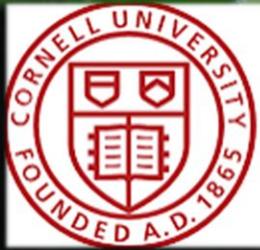


Orius insidiosus
(Hemiptera: Anthocoridae)

Neoseiulus (= Amblyseius) cucumeris
(Mesostigmata: Phytoseiidae)



Thank You!



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