

Leps Coleo **Hemi** Hym Dip Orth Neur Thys Trom Tylen Psoco

### Hemiptera

Photo Cred: Jeffrey Lotz



UGA5194068

Leps Coleo **Hemi** Hym Dip Orth Neur Thys Trom Tylen Psoco

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Leps Coleo **Hemi** Hym Dip Orth Neur Thys Trom Tylen Psoco

### Hemiptera

Aphids

Mealy bugs

Chinch bug

Lygus bug

Brown Marmorated SB

Cicada



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### Hemiptera

Aphids

Mealy bugs

Chinch bug

Lygus bug

Brown Marmorated SB

Cicada

Scale

Whiteflies

Plant/Leaf bug

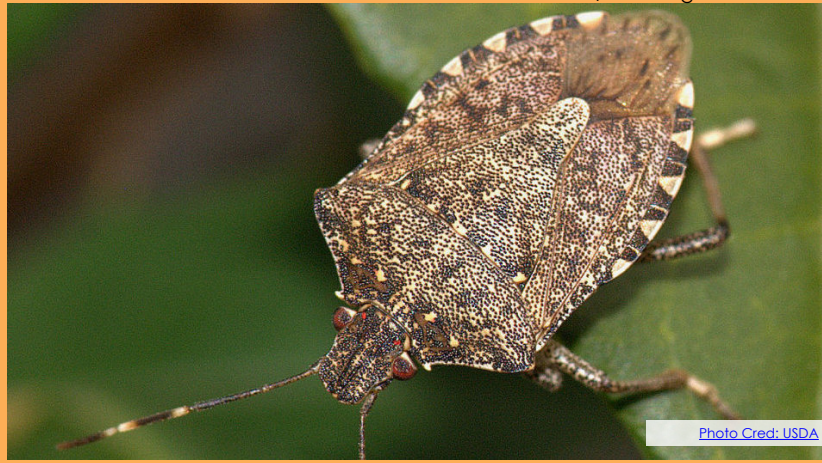


Photo Cred: USDA

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**Hemiptera**

Aphids	Mealy bugs	Chinch bug
Lygus bug	Brown Marmorated SB	Cicada
Scale	Whiteflies	Plant/Leaf bug






Photo Cred: Someone at Agrilife

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n Vafaie 2015

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Photo Cred: John Jackman

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UGA2666062

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**Hymenoptera**

Red/Black imported fire ant	Sawflies	Horntails
Texas leafcutter ant	Gall wasps	Bees & Wasps





Photo Cred: Tami New


### Hymenoptera


Red/Black imported fire ant      Sawflies      Horntails  
Texas leafcutter ant      Gall wasps      Bees & Wasps






Leps	Coleo	Hemi	Hym	Dip	Orth	Neur	Thys	Trom	Tylen	Psoco
<b>Hymenoptera</b>										
Red/Black imported fire ant			Sawflies			Horntails				
Texas leafcutter ant			Gall wasps			Bees & Wasps				
										
<i>Aphidius ervi</i>										
<ul style="list-style-type: none"> <li>• Average lifespan: 11-14 days</li> <li>• Average eggs: 250 - 400</li> </ul>										
										
<i>Encarsia ferosa</i>										
<ul style="list-style-type: none"> <li>• Average lifespan: 36.8 days</li> <li>• Average eggs: 442</li> <li>• Average death by host feeding: 101</li> </ul>										
<i>Eretmocerus eremicus</i>										
<ul style="list-style-type: none"> <li>• Average lifespan: 14 days</li> <li>• Average eggs: 162</li> </ul>										

Leps	Coleo	Hemi	Hym	Dip	Orth	Neur	Thys	Trom	Tylen	Psoco
<b>Diptera</b>										
Gall midges			Fungus gnats			Fruit flies				
Leaf miners			Stem/seed borers			Root/seed maggots				
										
Photo Credit: David Fenwick										

Leps	Coleo	Hemi	Hym	Dip	Orth	Neur	Thys	Trom	Tylen	Psoco
<b>Diptera</b>										
Parasitoids					Predators					
										

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**Diptera**  
Parasitoids                      Predators



G106-34 Photo Cred: [Agrilife](#)

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**Diptera**  
Parasitoids                      Predators



Leps Coleo Hemi Hym Dip **Orth** Neur Thys Trom Tylen Psoco

**Orthoptera**    Grasshoppers    Locusts                      Katydid                      Crickets


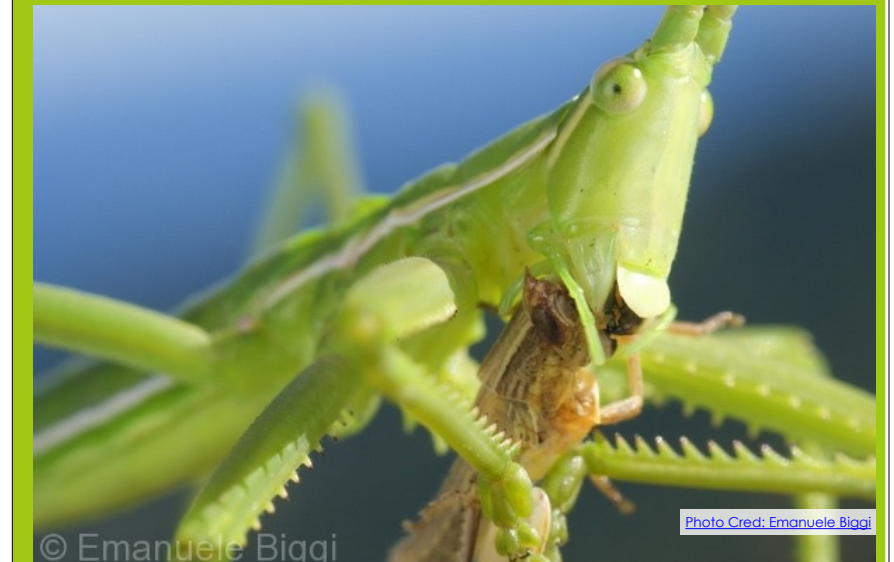


Photo Cred: [Mindy Brown](#)

Leps Coleo Hemi Hym Dip **Orth** Neur Thys Trom Tylen Psoco

**Orthoptera**    Grasshoppers    Locusts                      Katydid                      Crickets



© Emanuele Bigai Photo Cred: [Emanuele Bigai](#)

Leps Coleo Hemi Hym Dip **Orth** Neur Thys Trom Tylen Psoco

**Orthoptera** Grasshoppers Locusts Katydid Crickets



Leps Coleo Hemi Hym Dip Orth **Neur** Thys Trom Tylen Psoco

**Neuroptera** Green Lacewing



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**Neuroptera** Green Lacewing



**Thysanoptera** Thrips



Photo Cred: Yard Farm

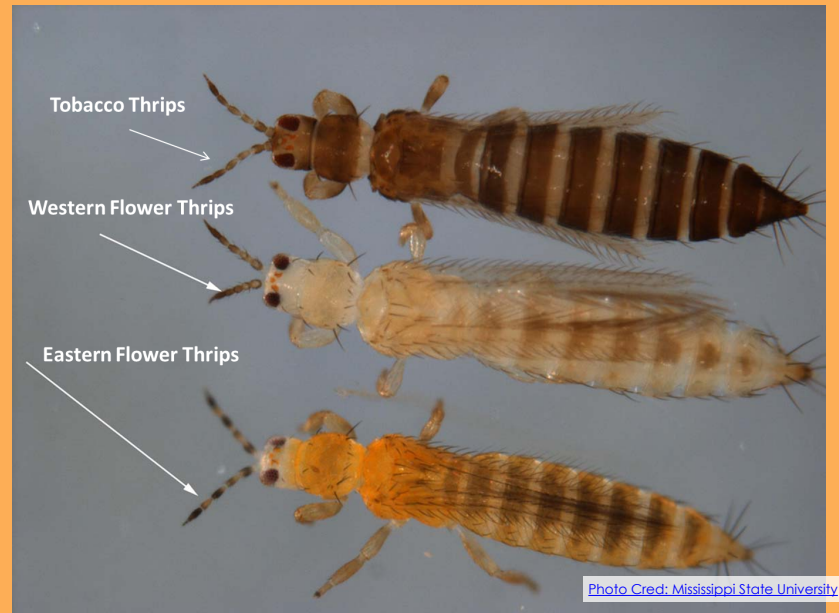


Photo Cred: Mississippi State University



Photo Cred: Kevin Hall

**Trombidiformes** Spider mites Bedbugs Gall mites



Photo Cred: Gilles San Martin



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**Trombidiformes** Spider mites Bedbugs Gall mites

Photo Cred: Allen Knutson & Mike Merchant

Photo Cred: ForestryImages.org

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**Trombidiformes** Spider mites Bedbugs Gall mites

Photo Cred: Gilles San Martin

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**Trombidiformes** Spider mites Bedbugs Gall mites

Photo Cred: Robin Rosetta

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**Trombidiformes** Spider mites Bedbugs Gall mites

Photo Cred: Robin Rosetta

**Trombidiformes** Predatory mites



Photo Cred: IIA

**Trombidiformes** Predatory mites



*P. persimilis*

- Feed on twospotted spider mite
- Average lifespan: 47 days
- Average offspring: 66 eggs
- Average max predation rate: 4.8/day



*A. andersoni*

- Feed on red and twospotted spider mite
- Average lifespan: 99 days
- Average offspring: 46 eggs
- Average predation rate: 7.2/day

Photo Cred: IIA

**Tylenchida** Plant parasites

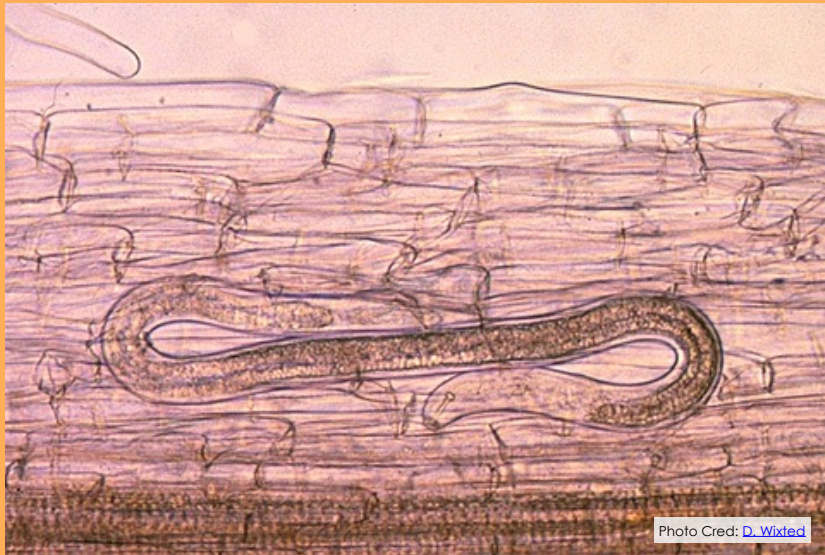
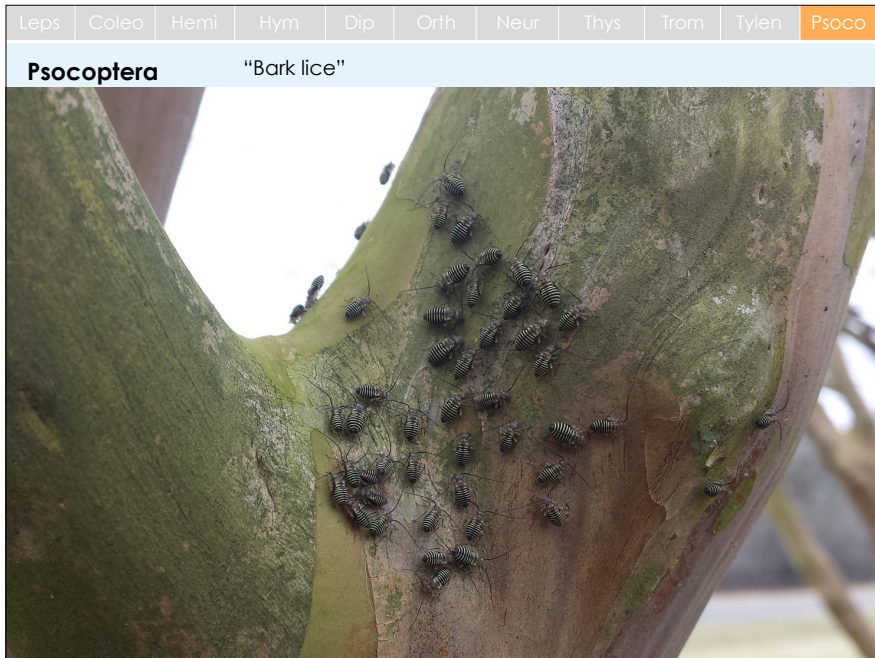


Photo Cred: D. Wixted

**Tylenchida** Insect parasites



Photo Cred: Scott Johnson



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## What are they?

Lepidopterans	Coleopterans
Hemipterans	Hymenoptera
Diptera	Orthoptera
Neuroptera	Thysanoptera
Trombidiformes	Tylenchida
Psocoptera	

Good bugs Bad bugs

For more on general physiology, taxonomy, and anatomy of insects

**Borror and DeLong's Introduction to the Study of Insects** 7th Edition  
 by Norman F. Johnson (Author), Charles A. Triplehorn (Author)  
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## Insect Identification

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