

Thysanoptera

Thrips

Thysano = fringe; ptera = wings

Thysanoptera

Thrips

- Fringe wings
- 2 pair of wings
 - both pairs narrow strips fringed with hairs
- Body small and narrow in size
- Rasping sucking mouthparts
- Incomplete metamorphosis
- Pests or predators

Bean thrips adult





White scars
and black fecal
spots left by
thrips



Thrips scarring on nectarines



Six spotted thrips –predator of mites



Neuroptera

Lacewings & antlions

Neuro = nerve; ptera = wings

Neuroptera

Lacewings & antlions

- Nerve wings
- 2 pair of wings
 - membranous with many veins
- Long antennae
- Chewing / chewing mouthparts
- Complete metamorphosis
- Predators or neutral

Green lacewing



Green lacewing eggs and larva



Coleoptera

Beetles & weevils

Coleo = sheath; ptera = wings

Coleoptera

Beetles & weevils

- Sheath wings
- 2 pair of wings
 - 1st pair hard
 - 2nd pair membranous
 - extreme variety
- Chewing / chewing mouthparts
- Complete metamorphosis
- Pests, predators or neutral

Asparagus beetle



Western spotted cucumber beetle adult



UC Statewide IPM Project
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Pacific flatheaded borer





Masked chafers
(white grubs)





Lady beetle



Lady beetle larva and pupa



Diptera

Flies, mosquitoes, gnats,
& midges

Di = two; ptera = wings

Diptera

Flies, mosquitoes, gnats, & midges

- Two wings
- 1 pair of wings
 - membranous
- Chewing / piercing-sucking or sponging mouthparts
- Complete metamorphosis
- Plant pests, human & animal pests, predators or parasitoids

Vegetable leafminer adult





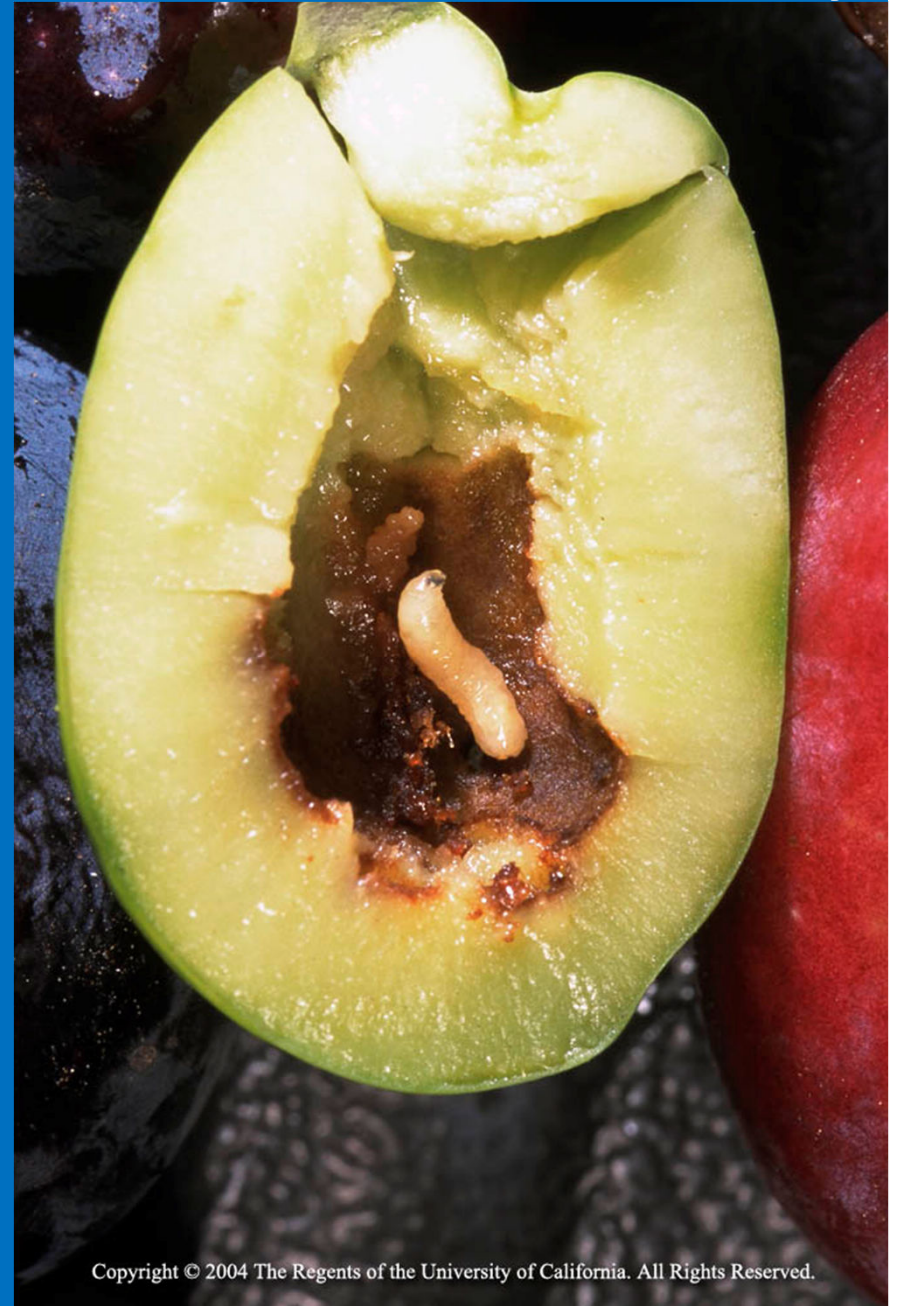
Vegetable leafminer larva



Fruit fly



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Tachinid fly



Tachinid fly eggs



Syrphid fly

