



UC Statewide IPM Program
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The Good, The Bad... And the Bugly!

Some Common Insects to Know

UC MGP SDC – Class of 2023
3/7/2023



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Aphids

Superfamily Aphidoidea



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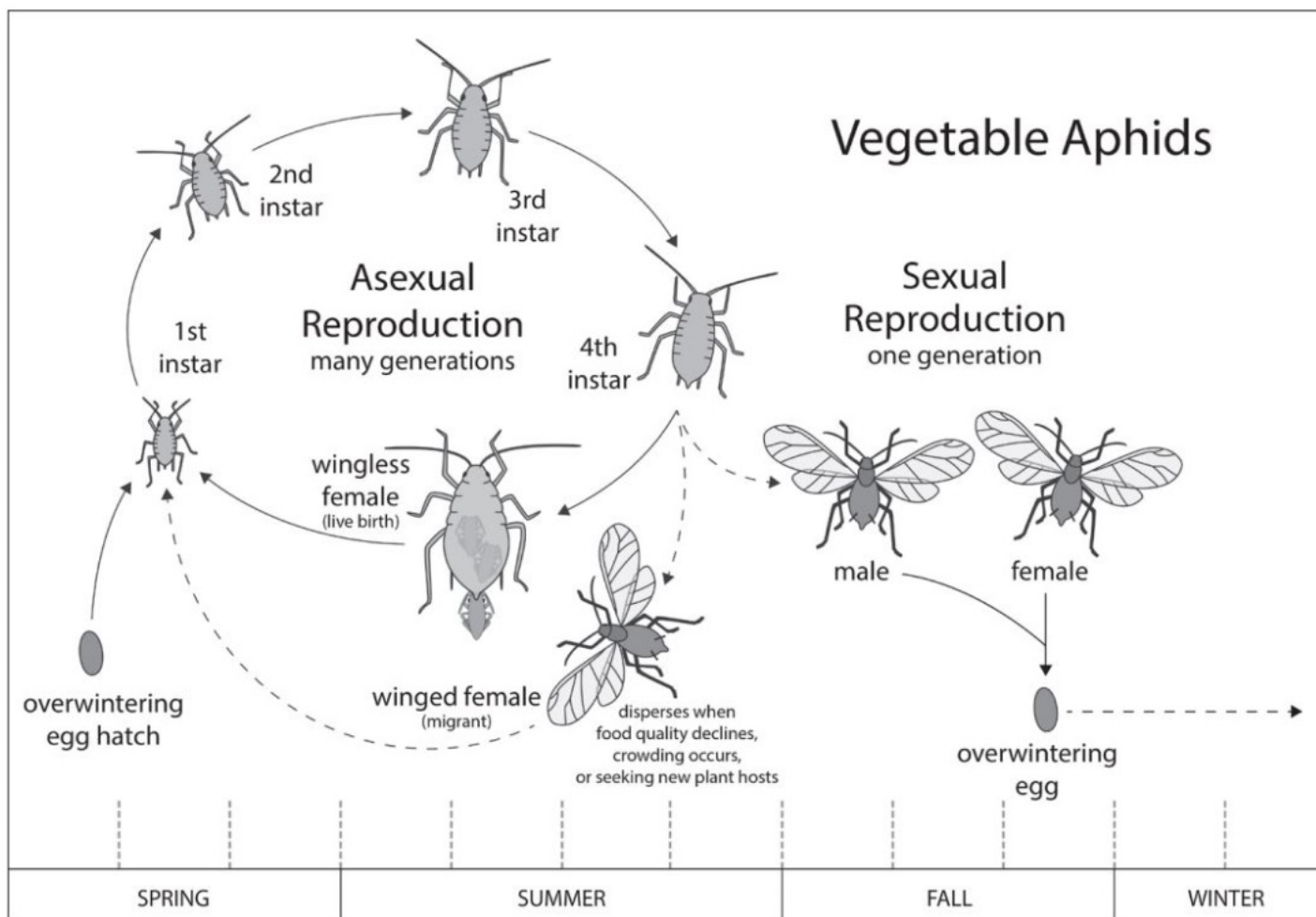
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Scientific Classification

- **Phylum:** Arthropoda
- **Class:** Insecta
- **Order:** Hemiptera
- **Superfamily:** Aphidoidea
- **Family:** MANY
- **Genus and species:** *MANY MANY MANY*
- Aphids: Simple metamorphosis (eggs, nymph, wingless adults, winged adults)
- Size: 1/16 - 1/8"
- Lifespan: 30 days



From Egg to Nymph to Adult








Nymphs molt about 4 times before coming an adult, seen in white





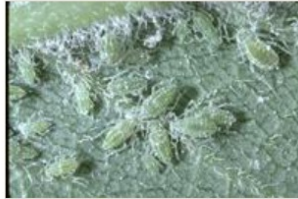


Hosts- Vegetables

Table 1. Common Aphids on Vegetables and Flowers.

Common name	Scientific name	Common hosts
Bean aphid 	<i>Aphis fabae</i>	Legumes, various woody ornamentals, and flowers
Cabbage aphid 	<i>Brevicoryne brassicae</i>	Cole crops and other mustard family plants
Green peach aphid 	<i>Myzus persicae</i>	Peppers, spinach, tomato, cucurbits, carrot, lettuce, legumes, corn, flowers, flowering plum, and stone fruit
Melon (cotton) aphid 	<i>Aphis gossypii</i>	Cucurbits, carrot, citrus, many flowers, and various woody landscape ornamentals
Potato aphid 	<i>Macrosiphum euphorbiae</i>	Potato, spinach, lettuce, tomato, and many others

Host- Fruit Trees

Table 2. Common Aphids of Fruit Trees.





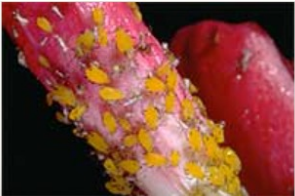
Common name	Scientific name	Common hosts	Comments
Green apple aphid 	<i>Aphis pomi</i>	Apple, pear, hawthorne, cotoneaster	
Leaf curl plum aphid 	<i>Brachycaudus helichrysi</i>	Plum, prune	Curls leaves, goes to Asteraceae in summer
Mealy plum aphid 	<i>Hyalopterus pruni</i>	Plum, prune	Curls and stunts leaves, goes to cattails and reeds in summer
Rosy apple aphid 	<i>Dysaphis plantaginea</i>	Apple	Curls leaves, goes to plantain in summer
Woolly apple aphid 	<i>Eriosoma lanigerum</i>	Apple, pear, pyracantha, hawthorn	Primarily found on wood or roots, creates galls in roots and waxy deposits



Hosts- Ornamentals

Table 3. Some Problematic Aphids on Woody Ornamentals.

(Green peach aphid, bean aphid, and melon aphid may also occur on many woody ornamentals.)

Common name	Scientific name	Common hosts	Comments
Ash leaf curl aphid 	<i>Prociphilus</i> species	Ash (other <i>Prociphilus</i> species attack other trees)	Causes leaves to curl, distort, and form pseudo-galls
Crapemyrtle aphid 	<i>Sarucallis kahawaluokalani</i>	Crape myrtle	
Giant conifer aphid 	<i>Cinara species</i>	Fir, pine, spruce, cedar	May be mistaken for ticks
Hackberry woolly aphid 	<i>Shivaphis celti</i>	Hackberry	Produces waxy tufts
Oleander aphid 	<i>Aphis nerii</i>	Oleander, milkweed	

Rose aphid

Macrosiphum rosae

Rose



Tuliptree aphid

Illinoia liriodendri

Tuliptree





- Plant stress
 - Yellow shoots
- Sooty mold
- Galls
- Vectors of Viruses
- Photo (left): Aphid infestations can cause leaves to curl (top left) and/or become yellow (top right). Aphids also feed on stems (boom left) and fruit (bottom right).



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Leaves severely curled and distorted from feeding of rosy apple aphid, *Dysaphis plantaginea*.



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Management

- Start with monitoring.
 - 2x per week
- Don't forget to look for natural enemies
 - Ladybug
 - Lacewing
 - Syrphid Fly
- Mummies!



Aphids killed by parasitic wasps such as *Lysiphlebus testaceipes* (shown)



So...

- "Good" or "Bad"



Resources

- <https://ipm.ucanr.edu/PMG/PESTNOTES/pn7404.html>
- <http://hortipm.tamu.edu/pestprofiles/SUCKING/BARTAPHID/BARTAPHID.HTML#:~:text=The%20average%20lifespan%20of%20an,of%20feeding%3A%20Piercing%20and%20sucking.>
- <https://extension.usu.edu/pests/research/aphid-pests-on-vegetables>

