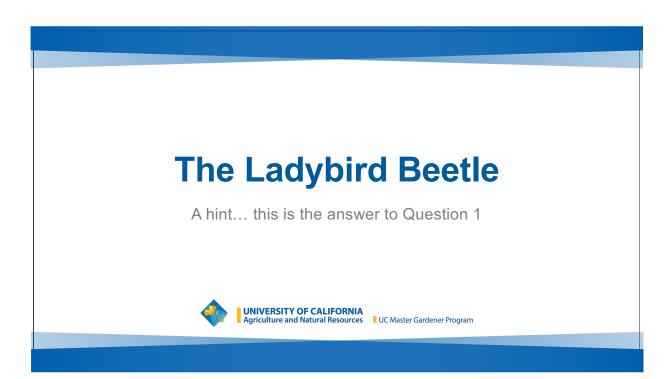
## The Good, The Bad... And the Bugly!

Some Common Insects to Know

UC MGP SDC – Class of 2023 1/17/2023



UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources UC Master Gardener Program

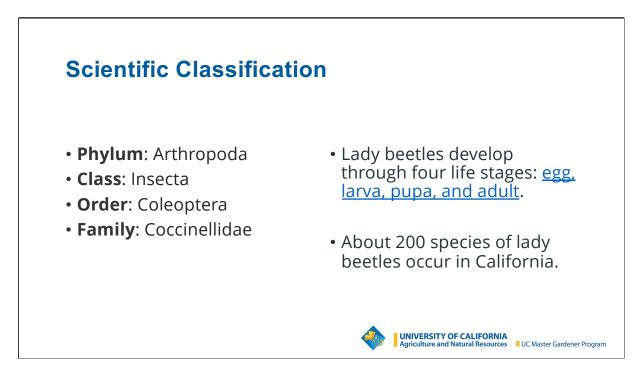


## Question 1: WHAT IS THIS BUGLY?



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Convergent Lady Beetle •*Hippodamia convergens* 



Adult females can lay several hundred eggs during their growing-season lifespan of about two months. After hatching, larvae develop through four increasingly larger instars.

Lady beetles, or ?ladybugs,? are round- or half-dome-shaped insects with hard wing covers. About 200 species occur in California and most are predators both as adults and larvae. Some species specialize on aphids or other groups; others have a broader diet

## **Question 2: WHAT IS THIS BUGLY?**



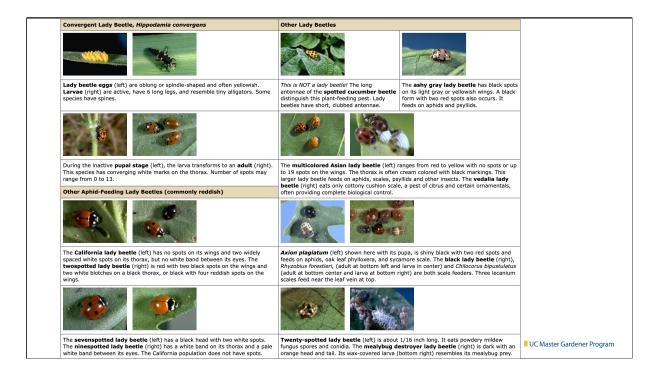
Convergent Lady Beetle •*Hippodamia convergens* 

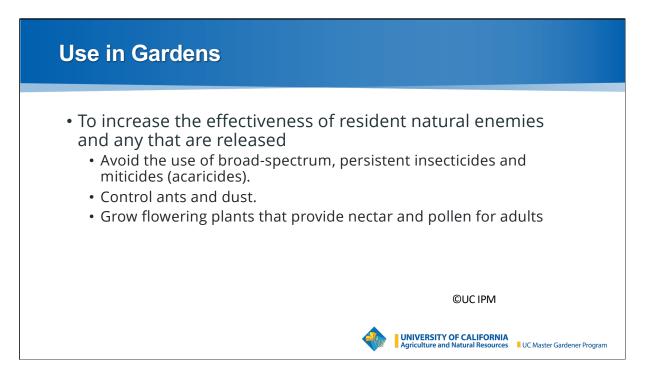
## Ladybug Life Cycle



Interestingly, ladybugs beat their wings 85 times per second in order to fly. When threatened, a ladybug can draw its head into its pronotum, like a turtle does, to protect itself.

Ladybugs hibernate in the winter months and will not fly when temperatures fall below 55 degrees. They feed on pollen and nectar and live on stored fat through the winter. Ladybugs are not preyed upon by birds or other vertebrates because they exude a very distasteful fluid from joints in their legs; their distinctive colors are a reminder to would be predators they taste "bad". When threatened, ladybugs will play dead.





Most will fly away from the release site within 1 or 2 days after they are released even if aphids are plentiful. However, each adult can consume about 100 aphids per day before it disperses.

Although resident lady beetles are important predators, purchased *Hippodamia* inherently disperse. Most will fly away from the release site within 1 or 2 days after they are released even if aphids are plentiful. However, each adult can consume about 100 aphids per day

before it disperses.

Controlling aphids on roses can require about 1,500 beetles per shrub released at 1- to 2-week intervals as long as conditions are suitable for aphids. You may need to plan in advance and purchase the beetles through a shipping service to obtain large numbers of them when needed and for a reasonable price.