































Hoverflies

- Many species mimic bees
- Wings are typically more translucent
 Typically generalist pollinators



17

Wasps

- Beneficial insects that control pest populations
- Limited pollination services
- Important predators of the insect world



xerces.org







A world without pollinators



22



23

Poll #3

• Why do you think insects & pollinators are in decline? (Choose all that apply)

-pesticides

-habitat loss due to farming and urbanization

-climate change

-pollution

-invasive species

New York Times Article

How (and Why) to Use Native Plants

You know they support pollinators and native wildlife, but you may not have a meadow where they'll feel at home. Here's what to do.

May 15, 2020

25



Overview of Native Plants

- At least 1/3 of our California natives are found nowhere else in the world.
 These species are known as endemics.
- Native species provide specialized benefits for wildlife
 Many nursery stock plants cannot provide that same benefit
- Not all flowers provide pollen & nectar, not all flowers with pollen & nectar are suitable for every pollinator.

 Output

 Description:
- Important that pollinator habitat contains a diversity of natives that bloom throughout the growing season.

26

Importance of Flower Shape

These shapes cater to different insects & pollinators

Flowers with tubular or funnel shapes

 Attractive to hummingbirds, butterflies, and moths Flowers that are broad or cup-shaped

Attractive to bees, hoverflies, and butterflies

Broad & Cup Shaped







28

Native Plants to Start With

- California Buckwheat (*Eriogonum fasciculatum*)
- Drought-tolerant, low-management
- Prefers full sun & well-drained soils
- Attractive to a wide array of insects
 - Butterflies, Bees
 - Hoverflies, Wasps



29

Native Plants to Start With

- Salvia species:
- Black Sage (Salvia mellifera)
 Chia Sage (Salvia columbariae)
 Hummingbird Sage (Salvia spathacea)
- Attractive to hummingbirds, butterflies & bees
- Widely available at local nurseries



2019 Diane Fichison	

Native Plants to Start With

- Narrow leaf milkweed (Asclepias fascicularis)
- · Host plant for the Monarch butterfly
- Many other native milkweeds
- Limited geographic range
- *Beware nursery labelling of milkweed*
 - Tropical milkweed (Asclepias curassavica)
 If you do have it, cut back during winter

Tarantula hawks on milkweed



31

Native Plants to Start With

- Ceanothus spp.
- Widely available in nurseries
 - Many hybrids & cultivars: "Ray Hartman, Concha, Valley Violet"
- Prefers full sun to partly shaded
- Large growing evergreen shrub
- Host plant to many species of butterfly



32

Annual Species

- Poppy
- Lupines
- Baby blue eyes
- Phacelia
- Clarkia
- Plant in Fall















Poll #4

- As a result of watching this webinar: (Choose all that apply)
- I know a lot more than I did before about native bees
- I'm excited to plant native plants for pollinators in my garden
- I'm planning to leave some bare ground in my garden for ground nesting bees.

37

Resources

- Calflora: https://www.calflora.org/
 - A database for native plants, where they grow, and if they are commercially available.



- California Native Plant Society
 - Information on native plant selections and gardening tips.



- Virtual Garden Tours
- Join a local chapter!

38

Key Takeaways

- How You Can Help:
- 1. Plant a diverse array of flowers, so that pollinators have plenty of forage & food sources year round.
- 2. Create nesting sites for bees.
- 3. Spread the word and create awareness around our pollinators.

