

## Why garden for pollinators?

- Human population growth threatens wild creatures by shrinking their habitat. As native plants disappear, so do the pollinators.
- Nearly all ecosystems on earth depend on pollination of flowering plants for survival. Plants and pollinators have evolved together and depend on one another.
- Placing native plants and other pollinator-supporting plants in the landscape helps support native pollinators.
- Many food crops require pollination to produce fruit. If we were to lose pollinators, we would lose 80-90% of all plants and 1/3 of our crop species. Pollination is vital to our food supply.
- Pollinators are an important food source for other animals, playing a key role in maintaining healthy ecosystems.





# What is a pollinator?

- Pollinators include: bees, butterflies, moths, hummingbirds, flies, beetles, wasps, and bats.
- When you look inside a flower you can see small parts tipped with yellow, purple or red fluffy material. This is the pollen, the genetic material of the plant. Pollinators carry pollen from flower to flower, leading to fertilization and the production of seeds and fruit.
- To attract pollinators provide two important foods: protein rich pollen and sugar rich nectar. The plants receive pollen transportation in exchange for providing nutrition to the pollinator, a mutually beneficial arrangement.



## How to suggest pollinators

- Plant a variety of plant types that will bloom from February to October. Increase use of native plants. Plant larval host plants for caterpillars as well as pollen and nectar plants.
- Provide a birdbath or shallow water source, and mud for butterflies and bees.
- Provide shelter and overwintering sites, using native bee blocks or boxes and bat houses, and leaving bare ground for ground-nesting bees. Wait until spring to clean up the garden. Pollinators may overwinter in dead wood, twigs, stems and grasses.
- Avoid using pesticides. Use horticultural oil or insecticidal soap if necessary. Apply in the evening when bees are not foraging.

# What to plant ...

Plant a pollinator garden with flowers throughout the growing season and provide food for native bees, butterflies and hummingbirds active at different times of the year. Note that in the Central Valley most of the butterfly species reach highest densities in summer and fall.

The plants on the following pages were chosen for their attractiveness to a variety of pollinators and arranged by spring, summer, and fall bloom. Most grow in full sun although some will benefit from shade late in the day in summer when temperatures soar. Most are low water although a few benefit from more water as noted.



### References

The Xerces Society Guide. 2011. Attracting native Pollinators. North Adams MA: Storey Publishing.

Ponder, Marissa V. How to Attract and Maintain Pollinators in Your Garden. ANR Publication 8498, October 2013.

Tallamy, D.W. 2009. Bringing Nature Home. Portland, OR: Timber Press.

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### Late Winter and **Spring**

Low 15" or less



Aristolochia californica California pipevine

- Deciduous vine
- Winter blooms on bare
- Larval food for pipevine swallowtail



Erigeron 'W.R.' Wayne Roderick's seaside daisy

- Perennial
- Lavender petals and green centers
- Bees and small butterflies



Teucrium × lucidrys dwarf germander

- Evergreen groundcovers
- Dark rose pink flowers in spring
- Nectar for small bees

Medium 15" - 30"



**Bulbine frutescens** Cape balsam

- Semi-evergreen upright foliage
- Orange or yellow flowers over long period
- Pollen for bees and beneficials



Correa species and cultivars Australian fuchsia

- Evergreen shrub
- Winter flowers dangle like bells
- Hummingbirds



Rosmarinus officinalis, cultivars rosemary

- Evergreen shrub, many
- Blue flowers in cool weather
- Bees, butterflies and hummingbirds



Salvia greggii cultivars autumn sage

- Evergreen woody-based perennials
- Red, orange or bicolor flowers in spring and fall
- Bees, butterflies and hummingbirds



Salvia spathacea hummingbird sage

- Spreading herbaceous perennial, fragrant foliage
- Red flowers in spring and summer
- Hummingbirds



Medium to tall 30" - 60"



Berberis aquifolium cultivars Oregon grape

- Evergreen shrub with spiny leaves
- Yellow flowers in spring
- Bees, hummingbirds



Ceanothus species and cultivars California lilac

- Evergreen shrubs, various sizes
- March blooms are blue, violet . or white
- Bees and butterflies



Aloe × spinosissima gold tooth aloe

Succulent with red flowers Hummingbirds



Cercis occidentalis western redbud

- Deciduous shrub, gray rounded leaves
- In February-March, produce magenta blooms
- Various bees

Tall >5'



Heteromeles arbutifolia toyon

- Evergreen large shrub
- April blooms, attractive berries in winter
- Various bees and beneficials



Lonicera standishii winter honeysuckle

- · Deciduous shrub
- January bloom, very fragrant
- Hummingbirds, bees



Arctostaphylos densiflora 'Howard McMinn' vine hill manzanita

- Evergreen shrub
- January bloom pinkish white
- Early bees and hummingbirds



Ribes species and cultivars currant

- Partially deciduous to evergreen shrubs
- Pink, rose and white flowers from winter to spring
- Hummingbirds

### Summer

Low 15" or less



Gaillardia × grandiflora blanket flower

- Herbaceous perennial
- Yellow, orange, and red flowers in hot weather
- Bees



Nepeta × faassenii catmint

- Herbaceous perennial
- Lavender blue flowers in spring and summer
- Bees and hummingbirds



Scabiosa 'Butterfly Blue' butterfly blue pincushion flower

- Herbaceous perennial
- "Pincushion" lavender pink flowers during long season
- Bees and butterflies

Medium 15" - 30"



Achillea 'Coronation Gold' yarrow

- Herbaceous perennial with ferny foliage
- · Yellow flowers in summer
- Bees



Aster × frikartii 'Mönch' mönch aster

- Herbaceous perennial
- Lavender daisies all summer
- · Various bees, butterflies



Origanum species and cultivars oregano

- Herbaceous perennial
- Rosy, pink or purplish summer flowers
- Bees and butterflies



Salvia chamaedryoides germander sage

- Evergreen small shrub
- True blue spikes of flowers spring and fall
- Bees

Medium to tall 30" - 60"



Asclepias species milkweed

- Deciduous perennial
- Pink and cream flower cluster •
- Larval food for Monarch butterflies, nectar for bees



Buddleja dwarf cultivars butterfly bush

- Deciduous shrub
- Many flower colors and blooms in summer
- Butterflies and hummingbirds



Dasylirion wheeleri desert spoon

- Large evergreen rosettes
- Tall spike creamy flowers
- Bees



*Eriogonum* various species buckwheat

- Evergreen shrubs
- Creamy clusters of small flowers
- Bees, beneficials and butterflies



Hesperaloe parvifolia coral yucca

- · Evergreen upright rosette
- Flowers coral pink, long spikes in summer
- Hummingbirds



Lavandula x ginginsii 'Goodwin Creek Gray', Goodwin Creek lavender

- Evergreen small shrubs
- Spikes of purple-blue flowers
- Bees and butterflies



Salvia clevelandii cultivars Cleveland sage

- Evergreen shrubs with fragrant foliage
- Whorls of blue-lavender flowers on spikes in spring into summer
- Bees, butterflies and hummingbirds



Perovskia atriplicifolia and cultivars

#### Russian sage

- Perennial with woody base
- Large clusters of delicate blue flowers late summer and fall
- Bees





Callistemon species and cultivars

### bottlebrush

- Tough, evergreen trees and shrubs
- Attractive "bottle brush" flowers, red or mauve purple
- Bees, hummingbirds



Chilopsis lineari cultivars desert willow

- Deciduous tree, multitrunked
- Large fragrant purple or pink flowers
  - Bees and hummingbirds



Vitex agnus-castus 'Shoal Creek' Shoal Creek chaste tree

- Deciduous large shrub
- Blue-violet flower spikes
  - Bees, butterflies



Kniphofia species, hybrids and cultivars poker plant

- Semi-deciduous clumping perennial
- Bees, hummingbirds



Medium 15" - 30"



Hylotelephium spectabile 'Autumn Joy' (synonymous with Sedum spectable 'Autumn Joy') Autumn Joy sedum

- Perennial with clumping bright green foliage
- Bees, butterflies



Baccharis pilularis
'Pigeon Point'
Pigeon Point coyote bush

- Evergreen shrub
- Apple-green foliage and creamy flowers
- · Bees, butterflies



Epilobium californicum cultivars
California fuchia

- Deciduous perennial
- Red flowers
- Bees, hummingbirds



Solidago californica 'Cascade Creek' Cascade Creek goldenrod

- Upright spreading perennial
- · Yellow flowers
- Bees, hummingbirds

Medium to tall 30" - 60"



Salvia leucantha Mexican bush sage

- Larges perennial with woody base
- Purple or purple and white flowers in fall
- Hummingbirds