Sleepy Orange (Abaeis nicippe)

Wingspan: 1 3/8" to 2 1/4" Food: cassia species Nectar: various flowers



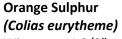


Large Orange Sulphur (Phoebis agarithe) Wingspan: 2 1/4" to 3 3/8" Food: Texas ebony, feather tree Nectar: bougainvillea, hibiscus, lantana

Queen (Danaus gilippus) Wingspan: 2 5/8" to 3 7/8" Food: milkweed species Nectar: milkweeds, frogfruit

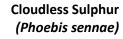


Monarch (Danaus plexippus) Wingspan: 3 3/8" to 4 7/8" Food: milkweed species Nectar: milkweed species, composites



Wingspan: 13/8" to 23/4" Food: Pea family, clover Nectar: milkweed, aster, goldenrod





Wingspan: 2 ¼" to 3 1/8" Food: cassia species, desert senna Nectar: bougainvillea, desert senna, hibiscus, lantana





Gulf Fritillary (Agraulis vanillae) Wingspan: 2 ½" to 3 ¾" Food: Passilfora

(Passionflower) Nectar: composites, lantana



Mexican Yellow (Eurema Mexicana) Wingspan: 1 3/4" to 2 1/2"

Food: fern acacia, cassia species

Nectar: cassia and acacia species

Dainty Sulphur

(Nathalis iole)

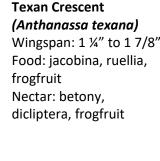
Food: Dyssodia,

rabbitbrush



Tailed Orange (Pyrisitia proterpia)

Wingspan: 1 ¾" to 2 ¼" Food: mesquite, cassia species Nectar: various flowers





Variegated Fritillary (Euptoieta Claudia)

Wingspan: 1 ¾" to 3 1/8" Food: Passiflora (passionflower) Nectar: aster, fleabane, milkweed, thistle



Bordered Patch (Chlosyne lacinia)

Wingspan: 1 3/8" to 2" Food: Sunflower family, ragweed

Nectar: various flowers



Mexican Fritillary (Euptoieta hegesia) Wingspan: 2 1/2" to 3" Food: morning glory, Passiflora (passionflower)

Nectar: lantana



Southern Dogface (Zerene cesonia)

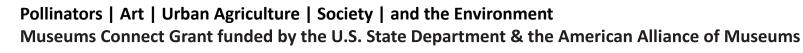
Food: alfalfa, Baja fairy duster, dalea Nectar: coreopsis, verbena











Common Buckeye (Junonia coenia)

Wingspan: 1 5/8" to 23/4" Food: toadflax, ruellia, **Snapdragon family** Nectar: aster, chickory, peppermint



West Coast Lady (Vanessa annabella) Wingspan: 11/2" to 21/4" Food: Mallow family Nectar: various flowers

Palmer's Metalmark (Apodemia palmeri) Wingspan: 34" to 1 1/8" Food: honey and screwbean mesquite Nectar: honey and screwbean mesquite

seepwillow

Cabbage White

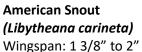
Nectar: mustard,

clover, aster, mint

(Pieris rapae)



Fiery Skipper (Hylephila phyleus) Wingspan: 11/4" to 11/2" Food: Bermuda and other grasses Nectar: milkweed, aster, thistle



Food: desert and western hackberry Nectar: aster, black-eyed



Painted Lady (Vanessa cardui) Wingspan: 2"to 2 7/8" Food: legumes, mallow,

thistle Nectar: aster, milkweed, thistle



Eufala Skipper (Lerodea eufala) Wingspan: 1" to 1 1/4"

Food: Bermuda and Johnson grass Nectar: alfalfa, composites



Elada Checkerspot

Wingspan: 7/8" to 11/4"

Food: yellow composites

Nectar: various flowers

(Texola elada)

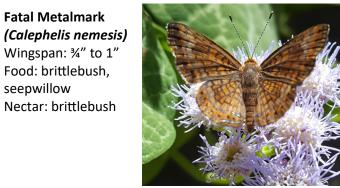
Susan, goldenrod

Wingspan: 7/8" to 1 3/8" Food: Acanthus family Nectar: various flowers



American Lady (Vanessa virginiensis)

Food: Artemisia, sunflower Nectar: marigold, milkweed, verbena



White Checkered-Skipper (Pyrgus albescens)

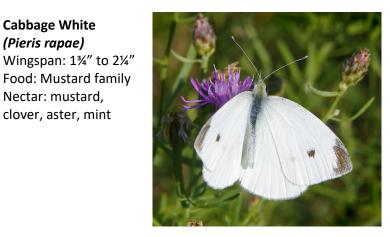
Wingspan: 1" to 1 1/2" Food: globemallow, desert ironwood Nectar: knapweed, red clover,

sweetbush



Wingspan: 1 ¾" to 2 5/8"

bird droppings

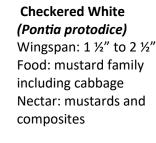


Arizona Powdered Skipper (Systasea zampa)

Wingspan: 1 to 1 1/2" Food: Mallow family Nectar: various flowers



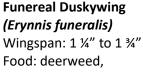
Red Admiral (Vanessa atalanta) Wingspan: 1¾" to 3" Food: Nettle family Nectar: tree sap, rotting fruit,





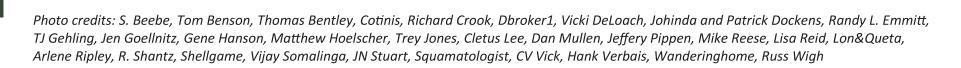






Food: deerweed, desert ironwood Nectar: Mexican oregano, wolfberry





Mourning Cloak (Nymphalis antiopa) Wingspan: 2¼" to 4" Food: willow, cottonwood, hackberry Nectar: oak sap,

rotting fruit



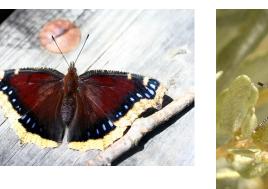
Pipevine Swallowtail (Battus philenor) Wingspan: 2 ¾" to 5" Food: Aristolochia

(pipevine) Nectar: lantana, lupine, thistle, verbena



Black Swallowtail





Western Pygmy-Blue Wingspan: ½" to ¾" saltbush, goldenrod

Spring 'Echo' Azure (Celastrina ladon echo) Wingspan: ¾" to 1¼" Food: includes elderberry Nectar: various flowers, buckwheat

(Brephidium exilis)

world's smallest

Nectar: fourwing

Food: saltbush



Reakirt's Blue (Echinargus isola) Wingspan: ¾" to 1 1/8" Food: Astragulus, dalea, mesquite Nectar: rabbitbrush



Ceraunus Blue (Hemiargus ceraunus) Wingspan: 3/4" to 1 1/8" Food: Baja fairy duster, mesquite Nectar: various flowers



Marine Blue

(Leptotes marina)

Wingspan: 7/8" to 1 1/8"

Nectar: alfalfa, kidney-

wood, plumbago

Great Purple

(Atlides halesus)

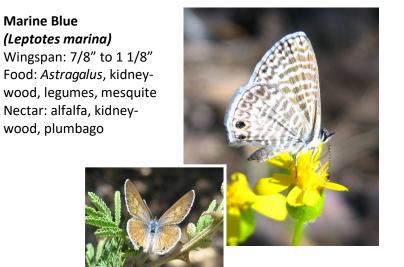
Food: mistletoe

Hairstreak

wild plum



Gray Hairstreak (Strymon melinus) Wingspan: 7/8" to 1 3/8" Food: Mallow and Pea families, cotton Nectar: milkweed. mint



Wingspan: 11/1" to 2"

Based on several years' observations, here is a list of butterfly species you are most likely to see in the gardens and when:

QUEEN — common all year

Noxious chemicals in the milkweeds that feed both adults and caterpillars make the butterflies and their young distasteful and help deter potential predators.

GULF FRITILLARY — common all year

The Gulf is one of the "longwing" butterflies, having long, narrow wings as compared to other butterflies.

PIPEVINE SWALLOWTAIL — common all year

At rest, these distinctive butterflies rhythmically open and close their wings, fluttering them when feeding.

MARINE BLUE — common spring to fall

Caterpillars at rest on Velvet Mesquite resemble a mesquite leaf.

TEXAN CRESCENT — common spring to fall

Caterpillars feed en masse, laying trails of silk threads to anchor themselves to the plant and guide their siblings.

SLEEPY ORANGE — common spring to fall

It may have gotten its name from the black spot on each forewing that resembles a closed eye.

CLOUDLESS SULPHUR — common spring to fall

This Sulphur is taken from Phoebe (*Phoebis*), one of the oracles at Delphi, and the genus Senna (sennae) to which many of the species' larval plants belong.

SOUTHERN DOGFACE — common spring to fall

In this case it's the upper side of the forewing that sports a dogface pattern.

DAINTY SULPHUR — common spring to fall

Adults rest with their wings closed, holding them perpendicular to the sun to warm themselves.

MONARCH – uncommon all year

Monarchs migrate thousands of miles each year to winter along the California coast and in central Mexico.

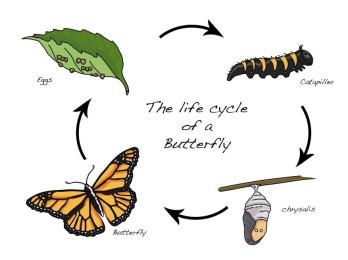
GIANT SWALLOWTAIL — common spring to fall

Caterpillars, known as "orange dogs," feed exclusively on citrus leaves; their resemblance to bird droppings serves as the perfect disguise from predators!



Butterfly Life Cycle

Found on every continent except Antarctica and in every kind of habitat from tropical forests to tundra, butterflies don't begin life as beautiful, winged creatures, but start out as wriggly caterpillars. Over the course of several weeks, caterpillars spend all their time eating leaves and flowers, shedding their skins as they grow bigger. When the time is right, they begin the process of *metamorphosis*. Turning that final shed skin into a pupa, or chrysalis, they continue the transformation process, emerging weeks, or even months, later as an adult butterfly. Most adults live only a short time, just long enough to lay eggs for the next generation.



Eating for Two

Adult butterflies drink their meals, a liquid diet of nectar from flowers, sap from trees or juice from ripe fruits. They use their *proboscis*, a long, tubelike tongue, just like a straw. When not in



They use their proboscis, a long, tubelike tongue, just like a straw. When not in use, it conveniently curls up like a garden hose.

Without the ability to chew, adults use specialized sensors in their feet to "taste" a plant before deciding whether it is one their caterpillars can eat and therefore a good place to lay their eggs.

Unlike their adult selves, caterpillars chew their leafy food, using strong jaws. Virtual eating machines, caterpillars are actually picky eaters, each species having its own "go-to" plants.

Puddle Parties

Ever wondered what that gathering of butterflies was doing around that mud puddle? To

supplement their diet of sugars, butterflies gather salts and other minerals from damp



soil and muddied water. Males are more likely to go "puddling," the minerals collected passed along in their sperm improving the viability of the female's eggs.

Butterfly or Moth?

How do you tell the difference? Butterflies are generally active during the day, while moths are nocturnal. Butterflies have smooth antennae that end in a rounded bulb, while those of moths are feathered. At rest, a butterfly holds its wings upright; moths fold their wings over their back. Butterflies perform their transformation in a chrysalis hanging from a stem or branch or even a wall. Moths either spin a cocoon of silk or pupate underground. And finally, though some moths can be colorful, butterflies are the ones whose brilliant colors make them standouts in the natural world.

Going "Native" Attracts Butterflies



Select plants native to the Sonoran Desert or other arid regions for your garden. Provide a mix of both larval and nectar plants; a variety of flowering plants also insures a year round nectar supply. Plant in groups, masses of flowers are more likely to attract passing butterflies. Finally, avoid pesticides and herbicides. What else? Fill a pie plate with gravel and then keep filled with fresh water for drinks and/or provide a damp soil area where adults can acquire needed salts and minerals. You can even set our pieces of overripe fruit which

will attract species like the Empress Leilia which prefers rotted fruit and tree sap.

Larval Plants

Dutchman's Pipe (*Aristolochia watsonii*) – summer-fall – Pipevine Swallowtail Arizona Passionflower (*Passiflora foetida*) – late spring-fall – Gulf Fritillary

Both Larval and Adult Plants

Pineleaf (*Asclepias linaria*) and Desert Milkweed (*A. subulata*) – spring-fall – Queen and Monarch (larval), Queen and Painted Lady (adult)

Baja Fairy Duster (*Calliandra californica*) – all year – Ceraunus Blue (larval and adult)
Dogweed (*Dyssodia pentachaeta*) – all year – Dainty Sulphur (larval), Dainty Sulphur and Western Pygmy Blue (adult)

Desert Senna (Senna covesii) – spring-fall – Cloudless Sulphur (larval and adult)

Adult Plants

Butterfly Mist (*Ageratum corymbosum*) – spring-fall – Queen, Painted Lady
Woolly Butterfly Bush (*Buddleia marrubifolia*) – spring-summer – multiple species
Red Bird of Paradise (*Caesalpinia pulcherrima*) – late spring-fall – Swallowtails and Sulphurs
Lantana species (*Lantana* sp.) – spring-fall – multiple species
Autumn Sage (Salvia greggii) – spring and fall – multiple species

Migration . . . on the road again!

Just like birds, many butterflies will relocate to avoid seasonal changes in the weather or to find new food sources. Most notable is the Monarch and its annual two-way migration. Some species

"overwinter" as caterpillars, pupae or even as adults, but Monarchs cannot live through a cold winter. Travelling as much as 3,000 miles one-way, Monarchs from west of the Rocky Mountains spend the winter along the California coast while those from central North America spend the winter in roosts in the mountains of central Mexico in large colonies of millions of individuals. When spring comes, they head north again, successive generations journeying all the way back to where their "ancestors" started.

