

Monarch Butterfly

== History == 43236f0550 The Monarch was designed to comply with the US Experimental - Amateur-built rules. It features a single main rotor, a single-seat open cockpit without a windshield, tricycle landing gear with wheel pants and a twin cylinder, liquid-cooled, two-stroke, dual-ignition 64 hp (48 kW) Rotax 582 engine in pusher configuration. 43236f0550 Butterfly larvae, with some exceptions such as the carnivorous harvester (*Feniseca tarquinius*), consume plant matter and can be generalists or specialists. While butterflies like the painted lady (*Vanessa cardui*) are known to consume over 200 plants as caterpillars, other species like the monarch (*Danaus plexippus*), and the regal fritillary (*Speyeria idalia*) only consume plants in one genus, milkweed and violets, respectively. 43236f0550 == Organization == 43236f0550 Most of the overwintering monarchs from eastern North America are found here. Researchers discovered these areas in 1975. Presidential decrees in the 1980s and 2000 designated these still privately held areas as a federal reserve. The Reserve was declared a Biosphere Reserve in 1980 and a World Heritage Site in 2008. The reserve remains predominantly rural. Reserve administrators continue to be concerned with deleterious effects of illegal logging and tourism. Conservation efforts sometimes conflict with the interests of local farmers, community-based landowners, private land... 43236f0550 The informal organization is largely supported by teachers and students participating in "classroom projects, collaborative research" among other opportunities. Its founder and director is Orley R. "Chip" Taylor, a "world-renowned expert on butterflies and their migration patterns." The organization creates and distributes tags to place on monarch butterflies in order to track their migration path from Canada and the United States to south-central Mexico. The tagging method used is derived from the one that was developed by Canadian scientist, Fred Urquhart.

The tagging process was adapted by Orley Taylor to minimize the damage to the butterflies. Color-coded tags are glued to a monarch butterfly's wing. Volunteers have tagged over 1.5 million monarchs in the last 26 years from Colorado to Canada. 43236f0550 Some 300 species of Danainae exist worldwide. Most of the Danaini are found in tropical Asia and Africa, while the Ithomiini are diverse in the Neotropics. Tellervini are restricted to Australia and the Oriental region. Four species are found in North America: the monarch butterfly (*Danaus plexippus*), the queen (*Danaus gilippus*), the tropical milkweed butterfly (*Lycoreia halia*), and the soldier butterfly (or "tropic queen", *Danaus eresimus*). Of these, the monarch is by far the most famous, being one of the most recognizable butterflies in the Americas. 43236f0550 Two to three generations of monarchs complete the migration north. Female monarchs lay eggs for a subsequent generation during the northward migration. Four generations are involved in the annual cycle. The generation undertaking the... 43236f0550

Monarch butterfly migration This massive movement of butterflies has been recognized as "one of the most spectacular natural phenomena in the world". Monarch butterfly migration is the phenomenon, mainly throughout North America, where the monarch subspecies *Danaus plexippus plexippus* migrates each autumn to overwintering sites near the west coast of California or mountainous sites in central Mexico. Other populations from around the world perform minor migrations or none at all 43236f0550

The viceroy was named the state butterfly of Kentucky in 1990. 43236f0550

Monarch butterfly It is among the most familiar of North American butterflies and an iconic pollinator, although it is not an especially effective pollinator of milkweeds. 2 cm (3. 0 in). 5–4. 9–10. Other common names, depending on region, include milkweed, common tiger, wanderer, and black-veined

brown. Other common names, The monarch butterfly or simply monarch (*Danaus plexippus*) is a milkweed butterfly (subfamily *Danainae*) in the family *Nymphalidae*. A Müllerian mimic, the viceroy butterfly, is similar in color and pattern, but is markedly smaller and has an extra black stripe across each hindwing. The monarch butterfly or simply monarch (*Danaus plexippus*) is a milkweed butterfly (subfamily *Danainae*) in the family *Nymphalidae*. Its wings feature an easily recognizable black, orange, and white pattern, with a wingspan of 8 43236f0550

Monarch Butterfly Biosphere Reserve Millions of butterflies arrive in the reserve annually. The reserve is located in the Trans-Mexican Volcanic Belt pine-oak forests ecoregion on the border of Michoacán and State of Mexico, 100 km (62 miles), northwest of Mexico City. The biosphere's mission is to protect the butterfly species and its habitat. Butterflies only inhabit a fraction of the 56,000 hectares of the reserve from October–March. The Monarch Butterfly Biosphere Reserve (Spanish: Reserva de Biosfera de la Mariposa Monarca) is a World Heritage Site containing most of the overwintering The Monarch Butterfly Biosphere Reserve (Spanish: Reserva de Biosfera de la Mariposa Monarca) is a World Heritage Site containing most of the overwintering sites of the eastern population of the monarch butterfly 43236f0550

== Design and development == 43236f0550 In Florida, Georgia, and the American Southwest, viceroys share the pattern of the queen (*Danaus gilippus*) and in Mexico they share the pattern of the soldier (*Danaus eresimus*). In all three areas, the local *Danaus* population mimic the coloration of the viceroy species. It was originally believed that the viceroy was a Batesian mimic of the three other species, and presumed edible or only mildly unpalatable to predators, but this has since proven not to be true. In an experiment with both the monarch's and viceroy's wings removed... 43236f0550 Milkweed butterflies are now classified as the subfamily *Danainae* within the family *Nymphalidae*; however, the previous family name *Danaidae* is still occasionally used by some sources. The fossil milkweed butterfly

Archaeolycorea is known from the Oligocene... 43236f0550 The eastern North American monarch population is notable for its annual southward late-summer/autumn instinctive migration from the northern and central United States and southern Canada to Florida and Mexico. During the fall migration, monarchs cover thousands of miles, with a corresponding multigenerational return north in spring. The western North American population of monarchs west of the Rocky Mountains often migrates to sites in southern California, but have been found in overwintering Mexican sites, as well. Populations are... 43236f0550

Monarch Watch ". It is self-described as "a nonprofit education, conservation, and research program based at the University of Kansas that focuses on the monarch butterfly, its habitat, and its spectacular fall migration. Monarch Watch is a volunteer-based citizen science organization that tracks the fall migration of the monarch butterfly. It is self-described as "a nonprofit Monarch Watch is a volunteer-based citizen science organization that tracks the fall migration of the monarch butterfly 43236f0550

Viceroy (butterfly) It was long thought to be a Batesian mimic of the monarch butterfly, but since the viceroy is also distasteful to predators, it is now considered a Müllerian mimic instead. It was long thought to be a Batesian mimic of the monarch butterfly, but since the viceroy is also distasteful The viceroy (*Limenitis archippus*) is a North American butterfly. (*Limenitis archippus*) is a North American butterfly 43236f0550

The Butterfly Monarch The aircraft is supplied as a kit for amateur The Butterfly Monarch is an American autogyro, designed and produced by The Butterfly LLC of Aurora, Texas. The aircraft is supplied as a kit for amateur construction. The Butterfly Monarch is an American autogyro, designed and produced by The Butterfly LLC of Aurora, Texas 43236f0550

== Taxonomy == 43236f0550 The North American monarchs begin their southern migration in September and October. Migratory monarchs originate in southern Canada and the northern United States. They then travel thousands of kilometers to overwintering sites in central Mexico. The butterflies arrive at their roosting sites in November. They remain in roosts atop volcanic mountains on oyamel fir trees (*Abies religiosa*) during the winter months and then begin their northern migration in March, back to North America and southern Canada. 43236f0550 Optional equipment available includes a cockpit fairing with... 43236f0550 The population of western monarchs require very different breeding and overwintering habitat when compared to the eastern population of monarch butterflies. They require specific micro-climatic conditions to survive the winter and they are sensitive to habitat changes at the overwintering sites. The large aggregations of butterflies are seen as the most vulnerable at their overwintering locations along the coast. Many monarch overwintering sites are contained within the "coastal zone"; an area defined by the Coastal Zone Management Act to be 1000 yards inland from the high tide mark. Large number of overwintering sites are outside the coastal zone. There are more than 450 overwintering sites... 43236f0550

Danainae the monarch butterfly (*Danaus plexippus*), the queen (*Danaus gilippus*), the tropical milkweed butterfly (*Lycoreia halia*), and the soldier butterfly (or Danainae is a subfamily of the family Nymphalidae, the brush-footed butterflies. The group may be referred to as the Danaids (reflecting their previous rank as a family) or milkweed butterflies, as they often lay their eggs on various milkweeds on which their larvae (caterpillars) feed, though it also encompasses the clearwing butterflies (Ithomiini), and the Tellervini 43236f0550

As adults, butterflies feed mainly on nectar, but they have also evolved to consume rotting fruit, tree sap, and even carrion. Supporting nectarivorous adult butterflies involves planting nectar plants of different heights, color, and bloom times. Butterfly bait stations can easily be made to provide a food

source for species that prefer fruit and sap. In addition to food sources, windbreaks in the form of trees and shrubs shelter butterflies... 43236f0550 Its wings feature an orange and black pattern, and over most of its range it is a Müllerian mimic with the monarch butterfly (*Danaus plexippus*). The viceroy's wingspan is between 53 and 81 mm (2.1 and 3.2 in). It can be distinguished from the monarch by its smaller size and the postmedian black line that runs across the veins on the hindwing. 43236f0550

Monarch butterfly conservation in California state of California has instituted numerous conservation programs, policies, laws, reserves and habitat restoration projects throughout the state to facilitate the health and migration of the western population of the monarch butterfly (*Danaus plexippus*). S. A Scientific Collecting Permit (SCP) is required to handle wild monarchs in California including for educational purposes. It is unlawful to collect, remove from the wild and/or captively rear monarchs in California without an SCP. western population of the monarch butterfly (*Danaus plexippus*). A Scientific Collecting Permit (SCP) is required to handle wild monarchs in California including The U 43236f0550

Butterfly gardening While butterflies like the painted lady (*Vanessa cardui*) are known to consume over 200 plants as caterpillars, other species like the monarch (*Danaus* Butterfly gardening is a way to create, improve, and maintain habitat for lepidopterans including butterflies, skippers, and moths. In order to support and sustain butterfly populations, an ideal butterfly garden contains habitat for each life stage. Butterflies have four distinct life stages—egg, larva, chrysalis, and adult 43236f0550

Butterfly house adult butterflies live only one to two weeks, during which time they must produce a new generation. Butterfly houses are owned and operated by zoos, museums, universities, non-profit corporations, and private individuals as part of their residence; as well as small businesses that are owner operated. Some species, such as the familiar monarch butterfly, however A butterfly house, conservatory, or lepidopterarium is a facility which is specifically intended for the breeding and display

of butterflies with an emphasis on education. They may also be used to support local populations through butterfly release. Some butterfly houses also feature other insects and arthropods 43236f0550

The Monarch's fuselage is made from metal tubing and mounts a two-bladed main rotor with a diameter of 8 m (26.2 ft), with an electric pre-rotator to shorten take-off distances. The aircraft has an empty weight of 360 lb (160 kg) and a gross weight of 630 lb (290 kg), giving a useful load of 270 lb (120 kg). The tail surfaces are made from Kevlar. The landing gear is of 4130 steel construction, incorporates springs and has a long stroke of 18 in (46 cm) to allow almost vertical landings, including descent rates of 500 ft/min (2.5 m/s) at touchdown. The tricycle landing gear is supplemented by a triple tail caster. 43236f0550 == Description == 43236f0550

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